

entron
INCORPORATED

P. O. BOX 287

• BLADENSBURG, MARYLAND

• APPLETON 9585

PRODUCT DIRECTORY

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• APPLETON 7-9585

F-1114-28IV602M

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PRODUCT DIRECTORY

This directory is a compilation of descriptive data and other user information covering Entron products.

The code number is a ready cross-reference to the price sheets, the class number is a factory indicator. When ordering please give the complete description and model number; the code and class are not required.

Code	Class	Model	Description
1	1	AMPLIFIERS, ALL-BAND	
		BT-88	Complete with BT-88A, BT-88B, and BT-88C
		BT-88A	Low-band only, less power supply, 35 db gain
		BT-88C	High-band only, less power supply, 34 db gain
		SA-23	Low and high-band, gain controls for each, 38 db gain
		FA-283	Low and high-band, gain controls for each, 38 db gain
2	1	AMPLIFIERS, BRIDGING LOW-BAND	
		BA-134	4 UHF distribution outlets, 1 UHF thru line, 13 db gain
		BA-134R	Same as BA-134, with voltage regulation
		BA-152	2 UHF distribution outlets, 1 UHF thru line, 15 db gain
		BA-152R	Same as BA-152, with voltage regulation
		BA-250	2 UHF distribution outlets, 1 UHF thru line, 25 db gain
		BA-250R	Same as BA-250, with voltage regulation
		BA-254	4 UHF distribution outlets, 1 UHF thru line, 21 db gain
		BA-254R	Same as BA-254, with voltage regulation
3	1	AMPLIFIERS, BRIDGING LOW-BAND, REMOTELY POWERED	
		RBA-6134	4 UHF distribution outlets, 1 UHF thru line, 13 db gain
		RBA-6152	2 UHF distribution outlets, 1 UHF thru line, 15 db gain
		RBA-6250	2 UHF distribution outlets, 1 UHF thru line, 25 db gain
		RBA-6254	4 UHF distribution outlets, 1 UHF thru line, 21 db gain
4	1	AMPLIFIER, BRIDGING SUB-LOW	
		SBA-504	4 "N" type distribution outlets, 40 db gain; 1 "N" thru line
5	1	AMPLIFIER, BRIDGING SUB-LOW, REMOTELY POWERED	
		RSBA-504	4 "N" type distribution outlets, 40 db gain; 1 "N" thru line
6	1	AMPLIFIER, LINE EXTENDER, LOW-BAND	
		DLX-26	20 db gain, UHF terminals, directly or remotely powered
7	1	AMPLIFIER, LINE REPEATER, AGC, LOW-BAND	
		LRA-40B	40 db gain, 10,000-hour tube, UHF terminals, tilt control
8	1	AMPLIFIER, LINE REPEATER, LOW-BAND	
		RA-1C	40 db gain, tilt control, UHF terminals
9	1	AMPLIFIERS, LINE TERMINATING DISTRIBUTION, LOW-BAND	
		TDA-111R	Voltage regulated, 1 UHF outlet, 29 db gain
		TDA-112R	Voltage regulated, 2 UHF outlets, 29 db gain
		TDA-114R	Voltage regulated, 4 UHF outlets, 29 db gain
10	1	AMPLIFIERS, LINE TERMINATING DISTRIBUTION, LOW-BAND REMOTE	
		TDA-601	Remotely powered, 1 UHF outlet, 29 db gain
		TDA-602	Remotely powered, 2 UHF outlets, 29 db gain
		TDA-604	Remotely powered, 4 UHF outlets, 29 db gain
11	1	AMPLIFIER, LINE TERMINATING, SUB-LOW-BAND	
		STA-504	4 "N" type distribution outlets, 40 db gain
12	1	AMPLIFIERS, SINGLE CHANNEL, AGC, HIGH-BAND (* Specify Channel)	
		APH-*	BNC connectors, 45 to 60 db gain
		SB-*	Self-contained power supply, 2 outputs, 40 db gain
13	1	AMPLIFIERS, SINGLE CHANNEL, AGC, LOW-BAND (* Specify Channel)	
		APL-*	BNC connectors, 65 to 80 db gain
		SB-*	Self-contained power supply, 2 outputs, 40 db gain
		APL-*D	BNC connectors, 60 db gain, 10,000-hour tubes, new design

Code	Class	Model	Description
14	1	AMPLIFIERS, SINGLE CHANNEL, PREAMPLIFIER (* Specify Channel) DRPB*	30 db fixed gain, can be remotely powered
15	1	AMPLIFIERS, SINGLE CHANNEL, SOUND AGC (* Specify Channel) SAC-*	BNC connectors, 35 db gain
16	1	ATTENUATORS, FIXED EQUIPMENT, VOLTAGE DIVIDER (* Specify Attenuation) JA-*	0, 3, 6, 9, 12 db attenuation, use with Model BA ampl. series
		JAS-*	0, 3, 6, 9, 12 db attenuation, use with Model SBA ampl. series
		JAT-*	0, 3, 6, 9, 12 db attenuation, use with Model STA ampl. series
17		ATTENUATORS, FIXED RESISTIVE (* Specify Attenuation)	
	1	ADA-*	3, 6, 10, 20 db attenuation, UHF male to UHF female
	2A	ADB-*	3, 6, 10, 20 db attenuation, BNC male to BNC female
	2A	AD-R*	3, 6, 10, 20 db attenuation, Model EP-700 to ER-700
	1	AD-D*	3, 6, 10, 20 db attenuation, for remotely powered equipment, UHF male to UHF female
18		BLOWER, PANEL-MOUNTED	
	2A	RB-1P	Mounted on 19-inch panel, with junction box for BT-1
19		CABLES, FOAM DIELECTRIC, TYPE RG-11, 75 ohms	
	3A	SSF11	Single-shield, high molecular weight polyethylene jacket
	3A	DSF11	Double-shield, high molecular weight polyethylene jacket
20		CABLES, FOAM DIELECTRIC, TYPE RG-59, 75 ohms	
	3A	SSF59	Single-shield, high molecular weight polyethylene jacket
	3A	DSF59	Double-shield, high molecular weight polyethylene jacket
21		CABLES, SOLID DIELECTRIC, TYPE RG-11, 75 ohms	
	3A	SSP11	Single-shield, high molecular weight polyethylene jacket
	3A	DSP11	Double-shield, high molecular weight polyethylene jacket
22		CABLES, SOLID DIELECTRIC, TYPE RG-59, 75 ohms	
	3A	SSP59	Single-shield, high molecular weight polyethylene jacket
	3A	DSP59	Double-shield, high molecular weight polyethylene jacket
23	3A	CABLES, SOLID DIELECTRIC, TYPE RG-11/U, 75 ohms RG-11A/U	Single-shield vinyl jacket, MIL-C-17B Spec
24	3A	CABLES, SOLID DIELECTRIC, TYPE RG-59/U, 75 ohms RG-59A/U	Single-shield vinyl jacket, MIL-C-17B Spec
25	1	CABLE ASSEMBLIES, EQUIPMENT TO HOUSING TO LINE	
		CA-1000	CWN-11 18" SSF11, XB101, 6' DSF11, UG-95/U
		CA-1001	SC-11 18" SSF11, XB101, 6' DSF11, UG-95/U
		CA-1003	UG-95/U 18" SSF11, XB101, 6' DSF11, CWN-11
		CA-1004	SC-11 18" SSF11, XB101, 6' DSF11, SC-11
		CA-1005	SC-11 24" SSF11, XB101, 6' DSF11, CWN-11
		CA-1010	CWN-11 18" SSF11, XB101, 10' DSF11, UG-95/U
		CA-1011	SC-11 18" SSF11, XB101, 10' DSF11, UG-95/U
		CA-1013	UG-95/U 18" SSF11, XB101, 10' DSF11, CWN-11
		CA-1014	SC-11 18" SSF11, XB101, 10' DSF11, SC-11
		CAK-3021	CWN-11D 20' DSP11, XB101, SC-11, supplied as kit
		CAK-3022	SC-11 20' DSP11, XB101, SC-11, supplied as kit
26	1	CABLES, CONNECTING	
		CC-2001	CWN-11 24" RG-11/U, CWN-11

Code	Class	Model	Description
26	1	CABLES, CONNECTING (CON.)	
		CC-2002	CWN-11, 6' DSF11, UG-95/U
		CC-2003	SC-11, 2' DSF11, CWN-11
		CC-2004	SC-11, 2' DSF11, SC-11
		CC-2005	CW-6, 5' RG-6/U, male "N" (50 ohms)
		CC-2006	Male "N" (50 ohms), 18" RG-59/U, CW-59
		CC-2007	SC-11, 12" RG-6/U, SC-11
		CC-2008	SC-11, 18" RG-6/U, SC-11
		CC-2012	CWN-11, 10' DSF11, UG-95/U
		CCR-18	CP-59, 18" RG-59, EP-700
27	1	CABLES, CONNECTING BNC FITTINGS (* Specify Length)	
		CCB-*	BNC male, 10", 15", 24", 30" RG-6/U, BNC male
28	1	CABLES, GROUNDING STRAPS	
		CG-4	Screw lug, 4" flat braid, to screw lug
		CG-7	Screw lug, 7" flat braid, to screw lug
		CG-10	Screw lug, 10" flat braid, to screw lug
29	1	CABLE SPLICE BLOCKS, SURFACE-MOUNTED	
		CSB-59	Grounding screw, 2 RG-59 pushon fittings
		CSB-59B	Grounding screw, 2 RG-59 pushon fittings, nickel plated
		CSB-59C	Grounding screw, 1 pushon fitting, 1 threaded RG-59
		CSB-59D	Grounding screw, 2 threaded RG-59
		CSB-59R	Terminating, 75 ohms
30	1	CAPACITORS, BLOCKING	
		AIC-11B	Isolating capacitor, UHF male to UHF female
		AIC-11N	Isolating capacitor, "N" male to "N" female
		SIC-BB	Isolating capacitor, BNC male to BNC female
		SIC-B59	Isolating capacitor, BNC male to RG-59 female
31		CONNECTORS, ADAPTERS	
	2A	EA-400	BNC male to UHF female
	2A	EA-500	"N" male to BNC female
	2A	EA-600	UHF male to BNC female
	2A	EA-1000	"N" male to UHF female
	2A	EA-1100	BNC female to UHF female
	1	EA-1200	Triaxial to CWN-11 and/or UG-95/U
	1	EA-1300	UHF male to "F" female
	1	EA-1400	BNC male to RG-59 female
	1	EA-1500	Entron EP-700 to "F" female
	1	EA-1600	Entron EP-700 to RG-59 female
	1	EA-1700	Entron EP-700 to UHF female
	1	XB-101	Triaxial outer shield to housing
32		CONNECTORS, COUPLINGS	
	2A	EA-100	BNC male to BNC male
	2A	EA-200	BNC female to BNC female
	2A	EA-300	BNC Tee (female-male-female)
	1	EA-701	UHF female to UHF female (Entron)
	1	EA-800	RG-59 female to RG-59 female
	1	EA-859	ER-500 to ER-500, for splicing RG-59/U
	2A	EA-900	"N" male to "N" male
	2A	EA-1800	ER-700 to ER-700, mate with EP-700
33		CONNECTOR, JACK	
	2A	UG-95A/U	"N" female cable jack, 75 ohms

Code	Class	Model	Description
34		CONNECTORS, PLUGS	
	1	CP-59	UHF male, RG-59 pushon, RG-59 cable
	1	CW-59E	Male for RG-59/U cable, nickel-plated
	1	CW-6	Male for RG-6/U cable
	2A	CWB-6	Male BNC for RG-6/U cable
	2A	CWB-11	BNC male for RG-11/U cable
	2A	CWB-59	Male BNC for RG-59/U cable
	2A	CWN-6	Male "N" for RG-6/U cable
	2A	CWN-11	Male "N" for single-shield RG-11/U cable
	2A	CWN-11D	Male "N" for double-shield RG-11/U cable
	2A	CWN-59	Male "N" for RG-59/U cable
	2A	EP-600	Two-pole, 300-ohm, mates with ER-601
	2A	EP-700	Coaxial, 75-ohm (RG-59/U, RG-6/U), mates with ER-701
	2A	EP-700A	Coaxial, 75-ohm, aluminum, tug plug
	2A	EP-700B	Coaxial, 75-ohm, nickel-plated, crimp type tug plug
	1	SC-8	Shupee, solderless, male for RG-8 cable
	1	SC-11	Shupee, solderless, male for RG-11 cable
35		CONNECTORS, SOCKETS, CHASSIS-MOUNTED	
	2A	ER-102	BNC female, with nut
	2A	ER-200	"N" female, four mounting holes
	2A	ER-201	"N" female, two mounting holes
	2A	ER-300	UHF female, four mounting holes
	2A	ER-301	UHF female, two mounting holes
	1	ER-400	RG-59, threaded
	1	ER-500	RG-59, pushon, solder-in mounting (silver-plated)
	1	ER-500T	RG-59, pushon, threaded mounting (nickel-plated)
	2A	ER-601	300-ohm, two-pole, mates with EP-600
	2A	ER-701	75-ohm, coaxial, mates with EP-700
	2A	ER-701B	75-ohm, coaxial, specially molded
36	1	CONVERTERS, VHF, AGC, RACK-MOUNTED (* Specify Conversion)	
		CHL-*	VHF high to VHF low, conversion gain approximately 80 db
		CLH-*	VHF low to VHF high
		CLL-*	VHF low to VHF low, conversion gain approximately 80 db
		CHL-*D	VHF high to VHF low, crystal controlled
37	1	CONVERTERS, UHF, AGC (* Specify Conversion)	
		CUL-*	UHF to low VHF, 84 db conversion gain
		CUL-P*	UHF to low VHF, self-powered 115 vac input, 84 db conversion gain.
38		CRIMP RINGS	
	1	CR-100	RG-59 crimp rings
	2A	CRC-6	RG-6 crimp rings
39		DEHYDRATOR	
	2A	DAC-1CP	For use with air-filled cables
40		DEMODULATORS, SINGLE CHANNEL RACK-MOUNTED (* Specify Channel)	
	1	DMV-26B*	Separate audio-video outputs
	1	VAD-*	High gain, low noise, separate audio-video outputs
41	1	EQUALIZERS, LINE, TILTED CHANNEL 6 OVER CHANNEL 2 (* Specify Tilt)	
		ECE-*	Available for 4, 6, 8, 10 db tilt, "N" male in; UHF female out
		ECE-N*	Available for 4, 6, 8, 10 db tilt, "N" male in; "N" female out
		ECE-U*	Available for 4, 6, 8, 10 db tilt, UHF male in; UHF female out

Code	Class	Model	Description
42	1	EQUALIZERS, LINE, TILTED CHANNEL 2 OVER CHANNEL 6 (* Specify Tilt) LEF-*	Available for 2, 4, 6, 8, 10 db tilt, UHF female in; UHF male out
43	1	FILTERS, ANTENNA, SINGLE CHANNEL (* Specify Channel) AF-*	Pretuned antenna filter, plug-in (use with filter base)
44	1	FILTERS, BASE, FOR USE WITH AF FILTERS FB-4 FB-7	Inputs for 4 VHF channels, combined output Inputs for 7 VHF channels, combined output
45	1	FILTER, BROADBAND REJECTION, RACK-MOUNTED DBR-26	Tunable channel 2 to 6, BNC fittings
46	1	FILTERS, FIXED FIV-45 HPF-50 HPF-170 LF-2 LF-3 SF-701 TBN-10	Trap, tuned to 4.5 mc, BNC connectors High pass filter, 50 mc cutoff, BNC connectors High pass filter, 170 mc cutoff, BNC connectors Powerline filter, 2-foot line cord, solder terminals Powerline filter, 3-foot line cord, solder terminals Band combining or splitting filter, crossover 125 mc Band splitting, for audio bridging, crossover 10 mc
47	1	FILTERS, HIGH-Q, NARROW-NOTCH HQT-26 HQT-26B HQT-26N HQT-26X HQT-73 HQT-73B HQT-73N HQT-73X	Tunable channel 2 to 6, RG-59 fitting Tunable channel 2 to 6, BNC fitting Tunable channel 2 to 6, "N" fitting Tunable channel 2 to 6, UHF fitting Tunable channel 7 to 13, RG-59 fitting Tunable channel 7 to 13, BNC fitting Tunable channel 7 to 13, "N" fitting Tunable channel 7 to 13, UHF fitting
48	1	FILTERS, HIGH-Q, BROAD-NOTCH HQF-26 HQF-26B HQF-26N HQF-26X	Tunable channel 2 to 6, RG-59 fitting Tunable channel 2 to 6, BNC fitting Tunable channel 2 to 6, "N" fitting Tunable channel 2 to 6, UHF fitting
49	1	FIELD KITS FKF-1 FKF-2 FKT-1	Replacement fuses for standard Entron equipment Replacement fuses for remotely powered and standard equipment Replacement tubes for all Entron equipment
50	1	HOUSINGS, EQUIPMENT, EXTERIOR PEH PEH-1 REH-1	Cabinet for mounting equipment on pole crossarm, 10"H x 18"W x 24"D Cabinet for mounting equipment on pole crossarm, 10-1/2"H x 16"W x 16"D Cabinet for mounting remotely powered equipment on pole crossarm, 11"H x 13"W x 9"D
51	2A	HOUSINGS, EQUIPMENT, INTERIOR, RACK PANEL, 19 INCHES RPA-61 RPA-77	Cabinet, complete with blower and thermostat, 61 inches Cabinet, complete with blower and thermostat, 77 inches
52	1	LOAD CENTERS, LIGHTNING PROTECTED LPB-5 LPB-10	4 outlets, 600-watt total, rf filtered 6 outlets, 1000-watt total, rf filtered

Code	Class	Model	Description
53	1	LOAD CENTER, ACCESSORIES LPB-U	Replacement Thyrite Lightning Arrestor for LPB series
54	2A 1	MODULATORS, SINGLE CHANNEL, RACK-MOUNTED (* Specify Channel) VAM-* VAMG-*	Audio/video in—combined rf output Audio/video in—combined rf output, high output level
55	1	MIXER, ELECTRONIC MUE-5	Combines 5 VHF low channels, BNC in; UHF out
56	1	MIXERS, PASSIVE MUP-2 MUP-2X	Combines 2 channels, BNC fittings Combines 2 channels, UHF fittings
57	1	NOISE SUPPRESSOR, RACK-MOUNTED ANS-H	Automatic Noise suppressor (use with CHL and APL-C)
58	1	OSCILLATOR CONTROL UNIT, 2-CHANNEL, LOW-BAND (* Specify Channel) PCO-26* SSO-L*	Fixed low band pilot carrier oscillator Automatic signal substituting oscillator
59	1	OUTLETS, CABLE TERMINATING TC-700 TB-700	Outlet cover plate Outlet cover box
60	1 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A 1	PANELS AND MOUNTING BRACKETS ASB-1 BRP-17 BRP-35 BRP-55 BRP-70 BRP-85 BRP-100 BRP-120 BRP-140 BRP-190 BRP-210 PRA PRH PRR QAB	Acrasplit bracket (snap-in) Blank rack panel 1-3/4 x 19 inches, use with RPA series Blank rack panel 3-1/2 x 19 inches, use with RPA series Blank rack panel 5-1/4 x 19 inches, use with RPA series Blank rack panel 7 x 19 inches, use with RPA series Blank rack panel 8-3/4 x 19 inches, use with RPA series Blank rack panel 10-1/2 x 19 inches, use with RPA series Blank rack panel 12-1/4 x 19 inches, use with RPA series Blank rack panel 14 x 19 inches, use with RPA series Blank rack panel 19-1/4 x 19 inches, use with RPA series Blank rack panel 21 x 19 inches, use with RPA series 19-inch panel for mounting acrasplits in RPA 19-inch panel for mounting HQT series in RPA 19-inch panel for mounting RPS series in RPA Quick attach bracket for DLX-26 series
61	1	POWER SUPPLY BT-88B	For use with BT-88A and/or BT-88C
62	1	POWER SUPPLIES, REGULATED PS-101R PSR-2	For use with CHL or APL-C (one outlet), 21 watts For use with CHL or APL-C (three outlets), 60 watts
63	1	POWER SUPPLY, REMOTE RPS-B	Use with DLX amplifier series, 19-volt, UHF in; UHF out
64	1	SPLITTERS, USED WITH SA-23 AND FA-283 AMPLIFIERS ES-2 ES-4	Splits output two ways Splits output four ways
65	1	SPLITTERS, VHF LINE, ACRASPLIT SERIES (LOW LOSS) WEATHERPROOF AS-211A	3 db loss, UHF in; 2 UHF out

Code	Class	Model	Description
65	1	SPLITTERS, VHF LINE, ACRASPLIT SERIES (LOW LOSS) WEATHERPROOF (CON.)	
		AS-259A	3 db loss, RG-59 in; 2 RG-59 out
		AS-21159A	3 db loss, UHF in; 2 RG-59 out
		AS-25911A	3 db loss, RG-59 in; 2 UHF out
		AS-411A	6 db loss, UHF in; 4 UHF out
		AS-459A	6 db loss, UHF in; RG-59 out
		AS-45911A	6 db loss, RG-59 in; 4 UHF out
		ASN-211A	3 db loss, "N" in; 2 "N" out
		ASN-21159A	3 db loss, "N" in; 2 RG-59 out
		ASN-411A	6 db loss, "N" in; 4 "N" out
		ASN-41159A	6 db loss, "N" in; 4 RG-59 out
66	1	SPLITTERS, LINE, DIVALINE SERIES, FOR INTERIOR USE	
		DL-21	3 db loss, UHF in; 2 UHF out
		DL-29	3 db loss, RG-59 in; 2 RG-59 out, threaded connectors
		DL-29P	3 db loss, RG-59 in; 2 RG-59 out, pushon connectors
		DL-41	6 db loss, UHF in; 4 UHF out
		DL-49	6 db loss, RG-59 in; 4 RG-59 out, threaded connectors
		DL-49P	6 db loss, RG-59 in; 4 RG-59 out, pushon connectors
67	1	SPLITTERS, LINE-BRIDGING, 3 DB THRULINE LOSS, WEATHERPROOF	
		HYT-311A	UHF thruline, 2 UHF distribution lines, 6 db loss
		HYT-359A	RG-59 thruline, 2 RG-59 distribution lines, 6 db loss
		HYT-31159A	UHF thruline, 2 RG-59 distribution lines, 6 db loss
		HYT-35911A	RG-59 thruline, 2 UHF distribution lines, 6 db loss
		HYT-311NA	"N" thruline, 2 "N" distribution lines, 6 db loss
		HYT-511A	UHF thruline, 4 UHF distribution lines, 9 db loss
		HYT-559A	RG-59 thruline, 4 RG-59 distribution lines, 9 db loss
		HYT-51159A	UHF thruline, 4 RG-59 distribution lines, 9 db loss
		HYT-5591A	RG-59 thruline, 4 UHF distribution lines, 9 db loss
		HYT-511NA	"N" thruline, 4 "N" distribution lines, 9 db loss
68	2A	TAPES	
		TAF-7510W	Tape, friction, 3/4" by 75' ivory color
		TAG-5006	Tape, Fibre Glass, 1/2" by 66'
		TAV-5007	Tape, vinyl 1/2" by 108'
		TAP-520	Tape, Bishop Biseal, 1/2" by 30'
		TAV-7507	Tape, vinyl, 3/4" by 108'
		TAV-7508	Tape, vinyl, 3/4" by 66'
		TAY-1512	Tape, Scotchfil, 1-1/2" x 5'
69	1	TAPOFF, FASTEE, ATTENUATOR ONLY, VHF BAND EQUALIZED (* Specify Attenuation)	
		FTA-*	Attenuation at 70 mc, 43, 36, 29, 24, 22, 18, 14, 10, 8 db
		FTA-B*	Same as above, with BNC output fitting
		FTC-*	Same as FTA-*, new design
70	1	TAPOFF, FASTEE, BLOCKS ONLY	
		FTB-D	Block only, for double-shielded cable, nominal OD .460"
		FTB-S	Block only, for single-shielded cable, nominal OD .405"
71	1	TAPOFF, FASTEE, LINE, VHF (* Specify Attenuation)	
		FT-ADX*	Complete Fastee for oversized cable
		FT-11D*	Complete Fastee for double-shield cable
		FT-11S*	Complete Fastee for single-shield cable
72	1	TAPOFF, FASTEE, LINE, SUB-LOW BAND, FLAT, COMPLETE (* Specify Attenuation at 40 mc)	
		FTL-*	Attenuator only (passes audio frequency)

Code	Class	Model	Description
73	1	TAPOFF SURFACE MOUNTED, VHF, PUSHON, RG-59 THRU FITTINGS (* Specify Attenuation)	
		OB-300* Series	300-ohm, 2 screw terminals, available output attenuation: 10, 15, 20, 25, 30 db tapoff loss
		OB-600* Series	300-ohm, 2-pole plug socket, available output attenuation: 10, 15, 20, 25, 30 db tapoff loss
		OB-700* Series	75-ohm coaxial outlet socket (ER-701), available output attenuation: 10, 15, 20, 25, 30 db tapoff loss
74	1	TAPOFF, FLUSH-MOUNTED, VHF, PUSHON, RG-59 THRU FITTINGS (* Specify Attenuation)	
		OP-300* Series	300-ohm, 2 screw terminals, available output attenuation: 10, 15, 20, 25, 30 db tapoff loss
		OP-600* Series	300-ohm, 2-pole outlet socket, available output attenuation: 10, 15, 20, 25, 30 db tapoff loss
		OP-700* Series	75-ohm coaxial outlet socket (ER-701), available output attenuation: 10, 15, 20, 25, 30 db tapoff loss
75	2A	TAPOFF, PLUG FT-P	Sealing plug for Fastee block when attenuator is removed
76	1	TAPOFF, RISER LINE, DUAL OUTLET, VHF (* Specify Attenuation)	
		DK-100* Series	UHF thruline, 2 coaxial outlet sockets (ER-701), available output attenuation: 10, 15, 20, 25, db tapoff loss
		DK-700* Series	ER-701 thruline, 2 coaxial outlet sockets (ER-701), available output attenuation: 10, 15, 20, 25 db tapoff loss
77	1	TERMINATING RESISTORS, LINE, 75 ohms	
		RTW-B	BNC female
		RTW-11	UHF female
		RTW-11C	UHF female with isolating capacitor
		RTW-11CN	"N" female with isolating capacitor
		RTW-59	RG-59 female
78	1	TERMINATING RESISTORS, EQUIPMENT	
		RTP-B	BNC male for BNC socket
		RT-500	Pushon fitting for ER-500 connector
		RT-700	Mates with ER-701
		RTP-N	"N" male for "N" socket
		RTP-11	UHF male for UHF socket
		RTP-11C	UHF male with isolating capacitor
		RTP-11CN	"N" male with isolating capacitor for "N" socket
		RTP-59	RG-59 male for RG-59 socket
79	1	TEST EQUIPMENT	
		AH-1	Alignment housing for DRP-B and DLX-26 amplifiers
		D-50M	Scope detector, 50 ohms, terminating, sweep & marker mixer BNC
		D-75M	Scope detector, 75 ohms, terminating, sweep & marker mixer BNC
		NS-10	Bias supply self-powered, 0 to -10 vdc output
		TP-S	Test probe, split tube shield
		TP-90	Test probe, for 9-pin tube socket
		VHFM-D	Detector with marker mixer (all BNC female connectors)
80		TOOLS	
	1	BT-11C	Boring tool for RG-11 and aluminum-sheathed cables
	1	CT-59	Crimp tool for RG-59 cable (use CR-100 ring)
	1	IS-14	Boring tool for K-14 cable (used with Entron FT-K-14)

Code	Class	Model	Description
80		TOOLS (CON.)	
	1	SAT-11	Assembly tool for Entron Shuvees (SC-11 and SC-8)
	1	SCT-11	Crimping tool for Entron Shuvees (SC-11 and SC-8)
	1	TA-1	Alignment tool for Entron APL series
	1	TA-2	Alignment tool for Entron CHL series
	2A	HL-1	Hand lasher
81	1	TRANSFORMERS, ANTENNA MATCHING, EXTERIOR USE (* Specify Channel)	
		AT-370B	300-ohm input, RG-59 output
		AT-753B	300-ohm input, UHF output
		AT-753BN	300-ohm input, "N" output
		UBC-*	300-ohm input, RG-59 output for UHF channels
		UBC-*B	300-ohm input, BNC output for UHF channels
		UBC-*N	300-ohm input, "N" output for UHF channels
		UBC-*U	300-ohm input, UHF output for UHF channels
82	2A	TRANSFORMERS, CONSTANT VOLTAGE	
		CVP-500C	115 v, 60 cps, 500 va, panel-mounted
83	1	TRANSFORMERS, REMOTE POWER, 60 VOLTS	
		RPT-625	2.5 amps, UHF fittings
		RPT-650	5.0 amps, UHF fittings
		RPT-6100	10.0 amps, UHF fittings
84	1	TRANSFORMERS, SET-MATCHING, SURFACE-MOUNTED	
		WBC	6 db gain, RG-59 pushon fitting, gray or ivory
		WBC-T	6 db gain, RG-59 threaded fitting, gray or ivory
85	1	TRANSFORMERS, SET-MATCHING, SET-MOUNTED	
		WBL	6 db gain, RG-59 pushon fittings
		WBL-T	6 db gain, RG-59 threaded fittings
86	1	TRANSFORMERS, SET-MATCHING, FLUSH-MOUNTED	
		WBP	6 db gain, RG-59 pushon fittings
		WBP-S	6 db gain, automatic termination
		WBP-TV	6 db gain, "TV" engraved on plate
87	1	TRANSFORMERS, SET-MATCHING, SURFACE-MOUNTED, SWITCHABLE	
		WBS-B	6 db gain, RG-59 pushon fittings, local antenna switch
		WBS-BT	6 db gain, RG-59 threaded fittings, local antenna switch
88	1	TRANSFORMERS, SET-MATCHING, MOLDED CABLE HARNESS	
		CO-6	Entron WBL, 6-foot RG-59 cable with Entron Tug-plug EP-701
		CO-10	Entron WBL, 10-foot RG-59 cable with Entron Tug-plug EP-701
89	2A	THERMOSTAT	
		BT-1	Control used with Entron Blower RB-1P
90	1	FAILURE WARNING SYSTEMS (* Specify Frequency)	
		CFWD-*	Carrier sensor chassis
		TO-*	Plug-in tone oscillator
		CARP*	Power Supply and combining panel
		TRA-*	Plug-in tone amplifier
		TF-*	Plug-in amplifier filter
91	2A	WATERPROOFING MATERIALS	
		E-1000	Synco weatherproof compound, 1/2-pint can with brush
		E-2000	Dow-Corning silicone grease, 2-ounce tube

EQUIPMENT LOST OR DAMAGED IN TRANSIT

When delivering the equipment to you, the truck driver or carrier's agent will present a receipt for your signature. Do not sign it until you have (a) inspected the containers for visible signs of damage and (b) counted the containers and compared them with the amount shown on the shipping papers. If a shortage or if evidence of damage is noted, insist that a notation to that effect be made on the shipping papers before you sign them.

Further, after receiving the equipment, unpack and inspect it thoroughly for concealed damage. This should be done within 15 days, if possible. If such damage is discovered, immediately notify the carrier,

confirm the matter in writing, and insist upon an inspection and report.

In addition, report the shortages or damages to Entron, but do not return any damaged equipment unless we have furnished complete return shipping instructions.

Transportation companies are required to indemnify the receiver for damage resulting from their negligence. Entron will assist you, if necessary, in obtaining proper settlement. Thus, you should save all pertinent shipping papers, letters, or invoices until you are certain the equipment was delivered in good condition or until any damage has been adjusted.

REPLACEMENT PARTS

When ordering replacement parts, please give description and model number of each item ordered.

The part which will be supplied against a replacement order may not be an exact duplicate of the

original part. However, it will be a satisfactory replacement differing only in minor mechanical or electrical characteristics. The difference(s) will in no way impair the operation of the equipment.

ENTRON REGIONAL REPRESENTATIVES OR OFFICES

M. K. Johnson
10620 S. W. Lancaster Road
Portland 19, Oregon
(CH 6-2279)

Electroline Television Equipment
Suite 114, 5757 Decelles Avenue
Montreal 24, Quebec, Canada
(RE 8-9095)

J. W. Marsh
4216 W. Jefferson Blvd.
Los Angeles 16, California
(RE 2-0145)

Ron Merritt Company
1320 Prospect Street
Seattle 9, Washington
(MU 2-7337)

National Theatre Supply
92 Gold Street
New York 38, New York
(BE 3-4170)

Texas Community Antenna
303 Glover Street
Sulphur Springs, Texas
(TU 5-3757)

SUPPLEMENT TO CATALOG F-1113 FOR

COMMUNITY TELEVISION ANTENNA EQUIPMENT



THE SKILL'S BUILT IN

ORDERING INFORMATION

Please give a brief description of the equipment and the complete model number. Be sure to specify channel, conversion or attenuation wherever required. Include complete billing and shipping information. (We ship Roadway Express unless otherwise specified.) Stock items are shipped same day order is received. Equipment prices are listed in Price List F1159 (subject to change without notice).

ADDRESS ALL ORDERS TO:

Sales Department
Entron, Incorporated
Box 287
Bladensburg,
Maryland

WARRANTY

Entron equipment is warranted to be free from defects in materials (exclusive of lamps, vacuum tubes, fuses, and batteries) and workmanship for one year from date of purchase. Equipment is accompanied by a warranty card that must be filled out and mailed at the time of purchase.

The defective equipment will be repaired or replaced without charge by the factory. A letter requesting shipping authorization, stating the nature of the defect, should be sent to the factory. Do not return equipment until authorized to do so.

All equipment returned to the factory must be shipped prepaid and insured.

EQUIPMENT LOST OR DAMAGED IN TRANSIT

When delivering the equipment to you, the truck driver or carrier's agent will present a receipt for your signature. Do not sign it until you have (a) inspected the containers for visible signs of damage and (b) counted the containers and compared them with the amount shown on the shipping papers. If a shortage or if evidence of damage is noted, insist that a notation to that effect be made on the shipping papers before you sign them.

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ANTENNA SITE EQUIPMENT

Model APL-D VHF Single Channel Amplifier

10,000-Hour Tubes Throughout
Automatic Level Control
Adjustable Sound Level*—No Effect on Picture Carrier
Excellent Noise Figure and VSWR
High Stability—High Gain
Designed for Adjacent Channel Operation
ALC Reference—Picture Carrier
Powered by Entron PSR-2

*Ultra-Q Circuit—Patent Applied For



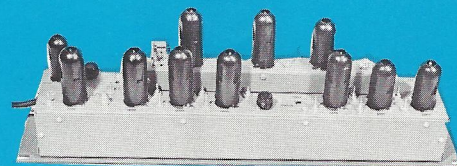
Model APL-D

BANDWIDTH _____ 6 mc (specify channel)
GAIN _____ 60 db
PICTURE OUTPUT LEVEL _____ +40 to +54 dbmv
SOUND OUTPUT LEVEL RANGE _____ 0 to 25 db (Below Picture)
ALC _____ 1 db output vs. 20 db input change
TUBES _____ (1) 6922, (5) 6686, (1) 5726
SEMICONDUCTORS _____ (1) SL550
DIMENSIONS _____ 3½" x 19" x 3½"
WEIGHT _____ 4¾ lbs.

Model CHL-D VHF Crystal Controlled Converter

10,000-Hour Tubes Throughout
Crystal Oscillator
Automatic Level Control
Adjustable Sound Level*—No Effect on Picture Carrier
High Gain—High Stability
Designed for Adjacent Channel Operation
Excellent Noise Figure and VSWR
ALC Reference—Picture Carrier
High VHF to Low VHF Conversions
Special Conversions Available
Powered by Entron PSR-2

*Ultra-Q Circuit—Patent Applied For

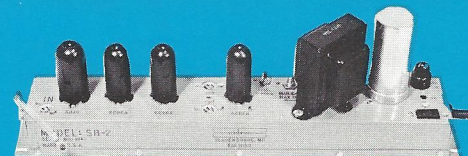


Model CHL-D

BANDWIDTH _____ 6 mc (specify channel)
GAIN _____ 60 db
PICTURE OUTPUT LEVEL _____ +40 to +54 dbmv
SOUND OUTPUT LEVEL RANGE _____ 0 to 25 db (Below Picture)
ALC _____ 1 db output vs. 20 db input change
TUBES _____ (1) 6922, (5) 6686, (1) 5726, (2) 6688, (2) 6689
DIMENSIONS _____ 3½" x 19" x 6½"
WEIGHT _____ 8 lbs.

Model SB Series VHF Single Channel or FM Amplifier

Automatic Level Control on TV Units
Self Contained Power Supply
High Reliability—High Output
Outputs of Several Units Easily Interconnected and
Automatically Mixed
Low Cost—Low Upkeep

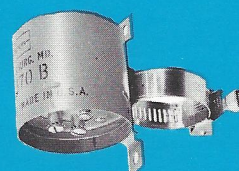


Model SB

BANDWIDTH VHF TV _____ 6 mc (specify channel)
BANDWIDTH FM _____ 20 mc (88 to 108 mc)
GAIN _____ 40 db
MAXIMUM OUTPUT LEVEL _____ +60 dbmv
POWER REQUIREMENTS _____ 115 v, 60 cps, 30 w, .3 amp
TUBES TV _____ (1) 6DJ8 (3) 6CB6A
FM _____ (1) 6DJ8 (2) 6CB6A
SEMICONDUCTORS _____ (1) SL550
DIMENSIONS _____ 2¾" x 15" x 4¾"
WEIGHT _____ 4 lbs.

Model AT-B Series Antenna Matching Transformer

Matches 300 ohm Antenna to 75 ohm Coaxial Line
Weatherproofed for Outdoor Use
Excellent Match—Low Loss
Applied with Mast Mounting Clamp
300 ohm Terminal Strip Input Fitting
75 ohm RG-59 Female Output Fitting (AT-370B)
75 ohm UHF Female Output Fitting (AT-753B)
75 ohm "N" Type Female Output Fitting (AT-753NB)



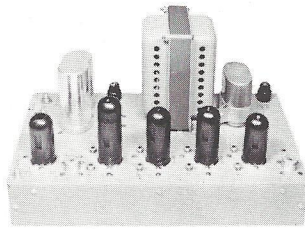
Model AT-370B

BANDWIDTH _____ 50 mc to 250 mc
FREQUENCY RESPONSE _____ ± 1 db
MOUNTING _____ two-hole bracket 2½" c/c or mast clamp
CASE DIMENSIONS _____ 1¾" High x 2" Diameter

REMOTE POWER DISTRIBUTION EQUIPMENT

Model LRA-640C ALC Line Repeater Amplifier

- 10,000-Hour Tubes Throughout
- Remotely Operated Using RPT-Series Transformer
- Automatic Level Control
- Excellent Input and Output Match
- ALC Reference—Composite Signals
- Regulated Power Supply
- Low Noise Cascode Input Stage
- Silicon Power Rectifiers
- Output Test Jack with Flat Response



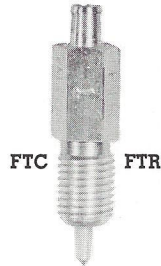
Model LRA-640C

BANDWIDTH _____ 54 mc to 88 mc
 GAIN _____ 40 db
 INPUT LEVEL RECOMMENDED _____ +8 dbmv
 OUTPUT LEVEL RANGE _____ 8 db
 MAXIMUM OUTPUT LEVEL _____ +42 dbmv
 POWER REQUIREMENTS _____ 60 v, 60 cps, 50 w
 TUBES _____ (1) 6922, (2) 6686,
 (1) 6227, (1) 6688
 SEMICONDUCTORS _____ (4) 5L550, (2) 1N54G
 DIMENSIONS _____ 12" x 6 3/4" x 7 1/2"
 WEIGHT _____ 10 lbs.

SUBSCRIBER CONNECTION DEVICES JET FASTEE ATTENUATORS

Model FTC Series, Capacitive

- Nylon Cone Preshaped to Minimize Shunt Capacity
- Exclusive Brass Pin
- Prelubricated Cone and Pin
- Minimum Insertion Loss
- Tilted Response Curve to Offset Cable Tilt
- Silver Plated for Long Life



FTC FTR

Model FTR Series, Resistive

- Nylon Cone Preshaped to Minimize Shunt Capacity
- Exclusive Brass Pin
- Prelubricated Cone and Pin
- Minimum Insertion Loss
- Flat Response Curve
- Silver Plated for Long Life

FTC	No.	Ch 6	Ch 13	FTC	Ch 6	CH 13	FTR	No.	Ch 6	Ch 13	FTR	Ch 6	Ch 13
TAP-OFF LOSS DB	03	39.0	33.0	INSERTION LOSS DB	1.05	.11	TAP-OFF LOSS DB	8	7.6	7.0	INSERTION LOSS DB	1.82	1.82
	05	33.5	27.0		.05	.13		12	11.6	10.5		1.30	1.30
	1	27.0	21.0		.06	.16		16	15.6	15.0		.75	.77
	2	24.5	17.5		.06	.19		20	19.6	17.6		.49	.50
	4	20.5	14.5		.06	.30		24	23.5	22.5		.25	.30
	6	17.0	11.5		.11	.58		28	27.5	26.4		.16	.18
	8	13.0	8.0		.24	1.54		32	30.9	30.0		.11	.14
	10	9.5	5.5		.46	2.48		36	34.8	34.0		.07	.08
								40	38.8	37.0		.06	.07

FM AND TV MATCHING TRANSFORMERS

Model WBF Matching Transformer

- Dual 300 ohm Outputs—One for TV, One for FM
- 75 ohm RG-59 Push-on Input Fitting
- FM Output 20 db Attenuated



Model WBF

BANDWIDTH _____ 50 mc to 250 mc
 SURFACE MOUNTING TABS _____ 2 3/8" c/c
 CASE DIMENSIONS _____ 1 1/4" x 2 1/2" x 2 3/4"

Model WBM Matching Transformer

- Matches Line to Set Impedance
- Metal Enclosure—Negligible Radiation
- AC Isolating Capacitors
- +6 db Voltage Transfer Ratio
- Bandwidth Flatness Within ± 1 db
- Set Mounting
- Quickly Installed—Push-on Fittings with Screw for Center Conductor—Twin Lead Lugs for Connection to Receiver

Model WBM



BANDWIDTH _____ 50 mc to 250 mc
 DIMENSIONS _____ 1/2" x 1" x 1 1/4"
 FINISH _____ Ivory

SUBSCRIBER CONNECTION DEVICES continued

Model OF — Series

Surface Mounted Box—Insert in Existing Cable System to Provide FM Outlet
 FM Signal Attenuated 20 db
 Complete AC Isolation
 Push-on RG-59/U Fittings for Thru-line
 OF-320—300 ohm Terminal Strip
 OF-620—300 ohm Plug Socket
 OF-720—75 ohm Plug Socket



Model OF-320



Model OF-620



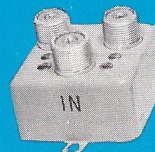
Model OF-720

DIMENSIONS _____ 1 1/8" x 2-1/16" x 3"

PASSIVE DISTRIBUTION EQUIPMENT

Model DL-20A Series Line Splitters (DL-21A, DL-29A, and DL-29PA)

Inexpensive for Multiple In-Building Connections
 Greater than 16 db Isolation Between Outputs
 Excellent Frequency Response
 Low Loss
 Threaded or Push-on Fittings Available
 Two Mounting Tabs for Surface Mounting



Model DL-21A



Model DL-29A



Model DL-29PA

BANDWIDTH _____ 50 to 225 mc
 FREQUENCY RESPONSE _____ ± .5 db
 FORWARD LOSS _____ 3.5 db
 CASE DIMENSIONS _____ 2" x 2" x 1 1/8"
 MOUNTING _____ 2 tabs on 2 3/8" centers

CONNECTORS

Model EA Series Couplers

EA-859 Coupling; ER-500 to ER-500 for splicing RG-59/U
 EA-1800 Coupling; ER-700 to ER-700, mate with EP-700



Model EA-859

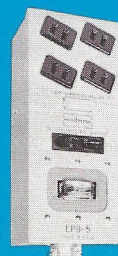


Model EA-1800

LOAD CENTER

Models LPB-5 and LPB-10

Rugged Filtered AC Outlets
 Eliminates VHF Radiation and Interference
 Surge and Overload Protection
 Replaceable LPB-U Thyrite Lightning Arrestor
 Fully Magnetic Circuit Breaker
 LPB-5: 4 Ruggedized Outlets, 600 Watts Total
 LPB-10: 6 Ruggedized Outlets, 1000 Watts Total



Model LPB-5



Model LPB-10

entron
INCORPORATED

P. O. BOX 287 • BLADENSBURG, MARYLAND

• APPLETON 7-9585

ENTRON'S ADABAND

(Advanced High Band Addition System Featuring Automatic Level Control)

Entron's Adaband equipment is designed to expand present low band systems to cover the complete VHF high band. The method employed allows continuing operation of the existing system while adding new equipment. Entron's philosophy of using automatic level control (ALC) at every repeater amplifier station has proven so successful that ALC has been incorporated in all repeaters of the Adaband system. Successful distribution of signals to the customer is accomplished by utilizing a bridging amplifier model with gain to suit the need. Entron offers 6 models of bridging amplifiers, including remotely powered units.

Trunkline

In most systems existing low band amplifiers may be used at their present location, and a high band amplifier added at each station. A high band repeater amplifier with ALC is a natural companion to a low band repeater since all necessary splitting and combining filters are already incorporated (Model HRA-400). The trunkline input is simply disconnected from the low band repeater and connected to the Model HRA-400 High VHF Repeater. The trunkline output connector is also disconnected from the low band repeater and connected to the output of the high band Model HRA-400. Two simple jumper cables are used to interconnect the trunkline through-filters in the Model HRA-400 and the existing low band repeater. The final installation steps are proper level and tilt settings on the Model HRA-400. Controls for this purpose are top-chassis mounted for easy access.

Signal attenuation caused by the cable between any two existing stations necessitates the addition of Entron's Model HRA-406 Adafier. This unit serves as a high band repeater, and in addition, provides filters to feed low band signals through the station. Further, the low band is amplified slightly to assure a proper input signal at the succeeding station.

Distribution Line

Entron offers a variety of bridging amplifiers, each with specific gain characteristics. These are dual band bridging amplifiers intended to replace existing low band bridges. This permits economical installations to satisfy all possible high band system requirements.

When required, Entron has available a variety of directly or remotely powered All Band Line Extender Amplifiers. These units are specifically designed to compensate for distribution line high band loss on existing systems.

Figure 1 is a typical layout of an existing system, while figure 2 shows the equipment needed to add the high VHF channels.

Our Sales Department will be happy to discuss your specific system requirements with you today.

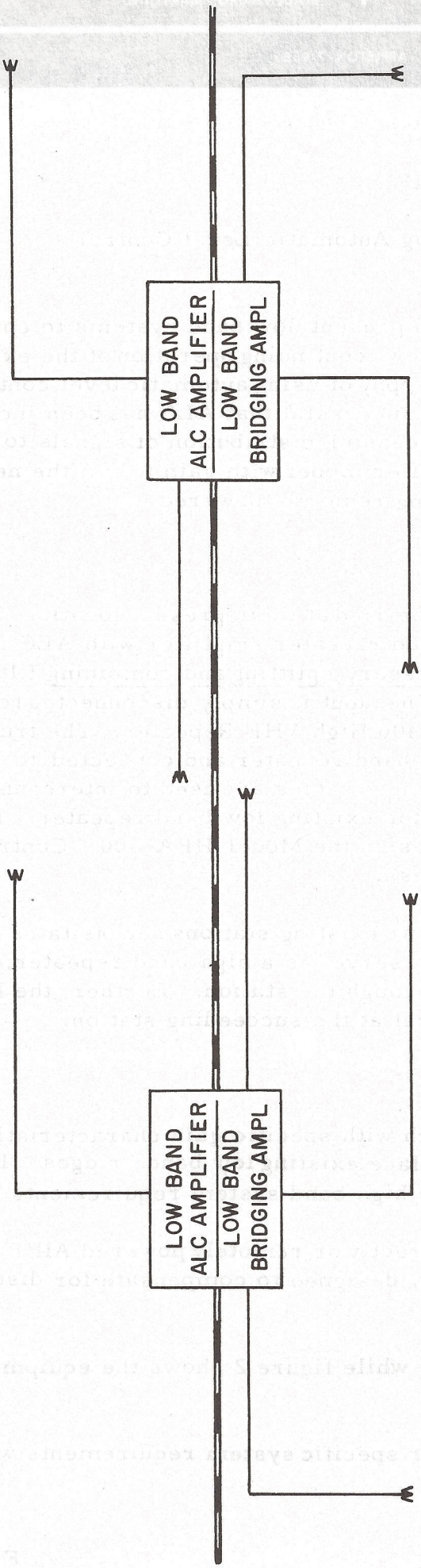


Figure 1. Typical layout, existing system.

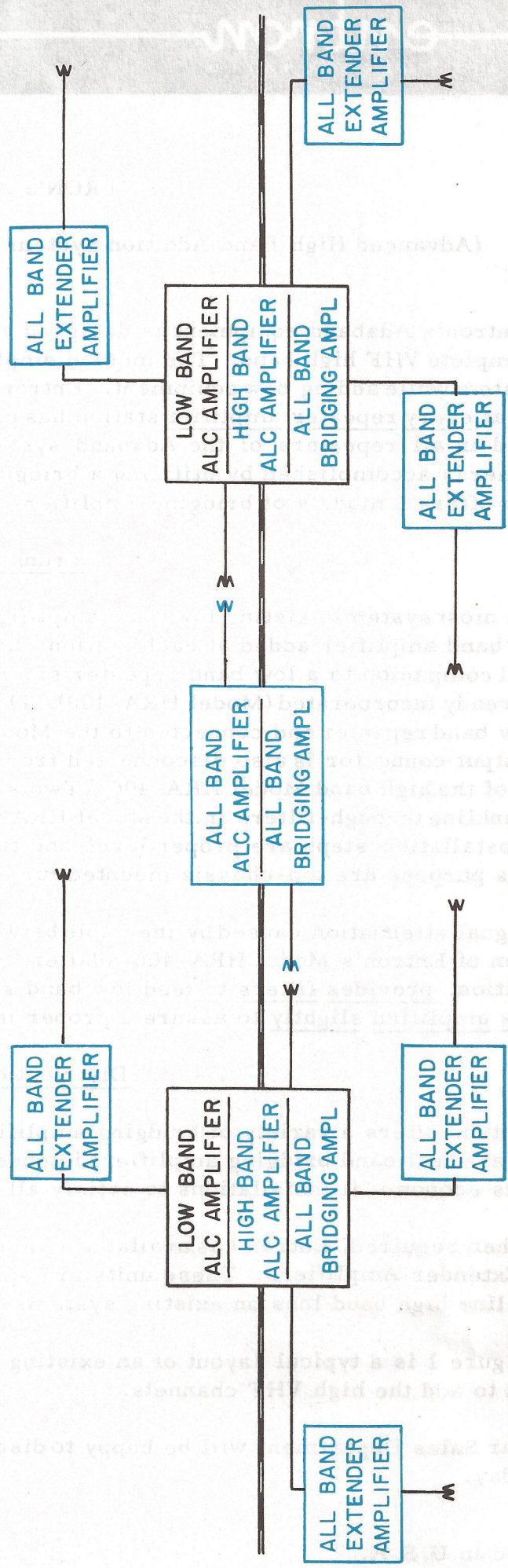


Figure 2. System modified to add high band.



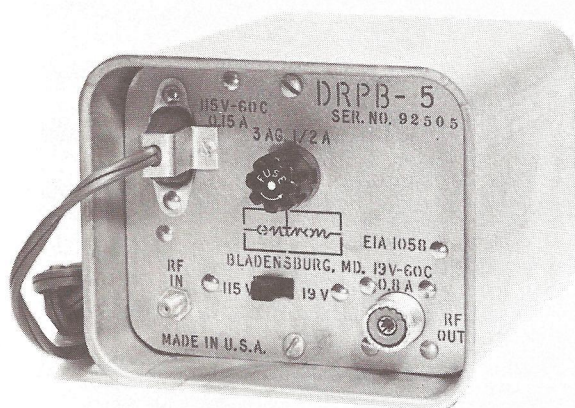
SINGLE CHANNEL PREAMPLIFIER MODEL DRPB

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AREA CODE 301

277-9585



MODEL DRPB

- ✓ Low or High VHF
- ✓ 10,000 Hour Input Tube
- ✓ Local or Remote Powering*
- ✓ Silicon Rectifier
- ✓ Low Noise—Excellent VSWR
- ✓ Weatherproof Enclosure
- ✓ High Gain

When the signal level is below that required by a single channel ALC amplifier or converter at the headend, a preamplifier is necessary.

As the preamplifier is usually mounted on the mast or pole containing the antenna, it is important that the preamp be of highest quality and reliability. The DRPB has been so designed.

The DRPB incorporates a 10,000 hour input tube and provides 30 db gain. Power can be supplied directly from a 115 volt AC source if it is available on the tower. Otherwise 19 volts can be fed from the headend via coaxial cable by using Entron's remote power supply model RPS-B.

The DRPB chassis is housed in a fully weatherproof enclosure with a specially designed tab which permits easy, secure mounting.

SINGLE CHANNEL PREAMPLIFIER MODEL DRPB

SPECIFICATIONS

Bandwidth.....	6 mc (Specify Channel)
Gain.....	30 db
Frequency Response.....	±0.5 db
Impedance, In and Out.....	75 Ω
VSWR, In.....	1.5:1
Noise Figure, Low Band Units.....	7 db
Noise Figure, High Band Units.....	7.5 db
Maximum Input Level.....	+22 dbmv
Maximum Output Level.....	+54 dbmv
Fittings, In.....	ER-400 (59)
Fittings, Out.....	ER-300 (UHF)
Fuse, Primary.....	3AG ½ Amp 250 v
Semiconductors.....	(2) SL550
Tubes, Low Band.....	(1) 6922 (1) 6CB6A
Tubes, High Band.....	(1) 6922 (1) 6AK5
Power Requirements.....	115 v 60 cps 12 w
Or.....	19 v 60 cps 12w*
Dimensions.....	6¼" x 4¼" x 3⅞"
Weight.....	3 lb 7 oz

* For Remote Powering Use Entron Power Supply, Model RPS-B.



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AREA CODE 301

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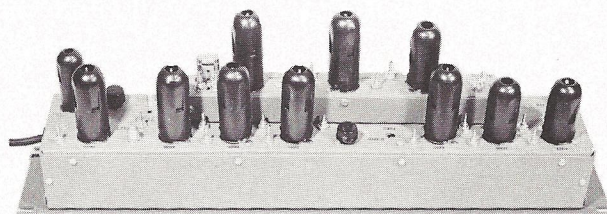


B-05-2

Printed in U. S. A.

ALC CRYSTAL CONTROLLED CONVERTER HIGH TO LOW VHF

- ✓ 10,000 Hour Tubes Throughout
- ✓ Excellent Noise Figure & VSWR
- ✓ Adjacent Channel Operation
- ✓ Adjustable Sound Level*—NO Effect on Picture Carrier
- ✓ Crystal Controlled Oscillator
- ✓ Automatic Level Control
- ✓ High Gain
- ✓ High Stability

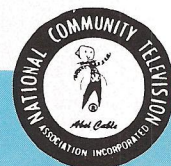


MODEL CHL-D SERIES

Bandwidth	6 mc (Specify Channel)
Gain at 0 v Bias	60 db
Frequency Response	±0.25 db
Frequency Accuracy	±0.005%
Impedance, In and Out	75 Ω
VSWR, In and Out	1.2:1
Noise Figure	8.0 db
Recommended Input Level	0 to +26 dbmv
Maximum Output Level	+54 dbmv
Output Level, Picture (for Proper ALC)	+40 to +54 dbmv
Output Level, Sound (Below Picture Carrier)	0 to 25 db
Fittings, In and Out	ER-100 (BNC)
Fitting, Test Point	ER-400 (59)
ALC (Maximum Output Variation for 10 db Input Variation)	0.5 db
ALC Reference	Picture Carrier
Tubes	(1) 6922 (5) 6686 (2) 6688 (1) 5726
Power Requirements	160 vdc at 160 ma and 6.3 vac at 3.7 amp**
Dimensions	3-1/2" x 19" x 6-1/2"
Weight	8 lb

* Ultra-Q Circuit-Patent Applied For.
** Use Entron Power Supply, Model PSR-2.

CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPARTMENT NOW!





SINGLE CHANNEL HEADED AMPLIFIER MODEL APL-D

P. O. BOX 287

BLADENSBURG, MARYLAND

AREA CODE 301

277-9585



MODEL APL-D

- ✓ Low VHF (Specify Channel)
- ✓ 10,000 Hour Tubes Throughout
- ✓ Excellent Noise Figure & VSWR
- ✓ Adjacent Channel Operation
- ✓ Adjustable Sound Level*—
- ✓ No Effect on Picture Carrier
- ✓ Automatic Level Control
- ✓ High Gain
- ✓ High Stability

As a single channel amplifier, the APL-D provides the system operator with all the features necessary where reliability is the primary requisite—at the headend. The full complement of 10,000 hour tubes and long life components assure you of this reliability.

In addition to this reliability, the high gain (60 db), low noise figure (7 db) and low VSWR (both input and output 1.2:1) are your guarantee for the finest possible performance.

The APL-D selects and amplifies picture, color and sound carrier frequencies for the desired channel and rejects all other signals. Also, a highly refined AGC circuit provides for constant output of the picture carrier while an Ultra-Q Circuit allows you to control the sound carrier level with no effect upon the picture carrier.

The output is ideally suited to drive an electronic mixer such as Entron's MUE Series.

SINGLE CHANNEL HEADEND AMPLIFIER MODEL APL-D

SPECIFICATIONS

Bandwidth.....	6 mc (Specify Channel)
Gain.....	60 db
Frequency Response.....	± 0.25 db
Impedance, In and Out.....	75 Ω
VSWR Input.....	1.2:1
VSWR Output.....	1.2:1
Noise Figure.....	7 db
Recommended Input Level for Proper ALC.....	0 to +26 dbmv
Maximum Output Level.....	+54 dbmv
Output Level, Picture (for Proper ALC).....	+40 to +54 dbmv
Output Level, Sound (Below Picture Carrier), Adjustable.....	0 to 25 db
Test Point Level.....	37 db below output
Fittings.....	ER-100 (BNC)
ALC (Maximum Output Variation for 20 db Input Variation).....	1 db
ALC Reference.....	Picture Carrier
Semiconductors.....	(1) SL550
Tubes.....	(1) 6922 (5) 6686 (1) 5726
Power Requirements.....	160 vdc at 150 ma and 6.3 vac at 2.5 amps**
Dimensions.....	3½" x 19" x 3½"
Weight.....	4¾ lb

* Ultra-Q Circuit—Patent Applied for.

** Use Entron Power Supply, Model PSR-2.



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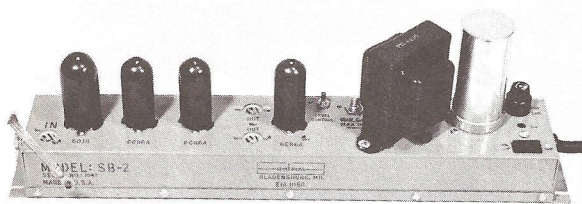
SINGLE CHANNEL AMPLIFIER MODEL SB

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MODEL SB

- ✓ Any VHF Channel or FM Band
- ✓ Automatic Level Control
- ✓ Excellent Noise Figure
- ✓ Built-in Piggy-Back Powering
- ✓ Built-in Mixing Network
- ✓ Silicon Rectifier
- ✓ High Reliability
- ✓ High Output

The SB is a highly reliable single channel or FM amplifier. There are thirteen models available, one for each VHF TV channel and one for the entire FM band. Their excellent automatic level characteristics (except the FM model), low noise figure and high output power handling ability, make them ideally suited for TV and FM distribution systems in apartment houses, hotels, motels, schools and institutions.

The TV and/or FM signal from an individual channel antenna is fed through a matching transformer to the input of the SB. Each unit has a built-in output mixing network which permits the combining of up to three low band TV channels, the FM band and four high band TV channels without a separate mixing device.

SINGLE CHANNEL AMPLIFIER MODEL SB

SPECIFICATIONS

	SB-F	SB-2-SB-6	SB-7-SB-13
Bandwidth.....	20 mc (88 to 108)	6 mc	6 mc
Gain.....	40 db	40 db	40 db
Frequency Response.....	±1 db	±0.5 db	±0.5 db
Impedance, In and Out.....	75 Ω	75 Ω	75 Ω
VSWR, Input.....		1.5:1	1.5:1
VSWR, Output (outside passband).....	1.4:1	1.4:1	1.5:1
Noise Figure.....		7 db	7 db
Minimum Input Level for Proper			
ALC at +50 dbmv Output.....		+10 dbmv	+10 dbmv
Maximum Input Level.....	+35 dbmv	+35 dbmv	+35 dbmv
Recommended Input Level.....	+5 dbmv	+20 dbmv	+20 dbmv
Maximum, Output Level.....	+45 dbmv	+60 dbmv	+60 dbmv
Output Terminals.....	2	2	2
Fittings.....	ER-701	ER-701	ER-701 (Tug-Plug)
Gain Control Range (Manual).....	15 db to max.	10 db to max.	10 db to max.
ALC Maximum Output Variation			
for 15 db Input Variation.....		1.2 db	1.5 db
ALC Reference.....		Picture Carrier	Picture Carrier
Output Level Control Range			
for Proper ALC.....		+50 to +60 dbmv	+50 to +60 dbmv
Fuses, Primary (3AG).....	¾ amp 125 v	¾ amp 250 v	¾ amp 250 v
Semiconductors.....	(1) SL550	(1) SL550	(1) SL550
		(2) IN54A	(2) 1N54A
		(1) IN34A	(1) IN34A
Tubes.....	(1) 6DJ8	(1) 6DJ8	(1) 6DJ8
	(2) 6CB6A	(3) 6CB6A	(2) 6CB6A
Power Requirements.....		115 v 60 cps 30 w 0.3 amps	
Dimensions.....		2¾" x 15" x 4⅝"	
Weight.....	3¾ lb	4 lb	4 lb



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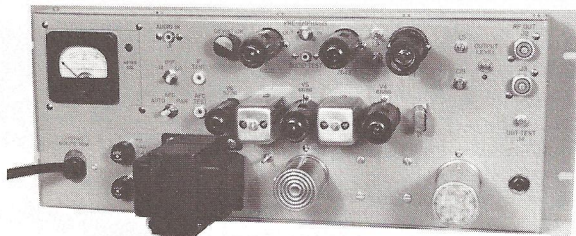
FM
TRANSMITTER
MODEL FMT-1100

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MODEL FMT-1100

- ✓ Reliable FM Signal Source
- ✓ Simultaneous, Multiplex and Monaural Operation
- ✓ Compact—Less Than ½ Cubic Foot
- ✓ Crystal Controlled AFC
- ✓ 10,000 Hour Tubes Throughout
- ✓ Long Life Silicon Rectifiers
- ✓ Four Test Points
- ✓ Two Output Terminals

Monaural or stereo audio in - frequency modulated RF out, and only 7 inches of rack space are required. The compactness of Entron's FMT-1100 is due to advanced design. All controls, jacks, and test points are located on the front panel for ease of operation and maintenance. Standard 75 μ sec pre-emphasis circuitry for monaural operation is incorporated and can easily be disabled by simple switching. The FMT 1100 features a two-inch meter incorporated on the front panel to monitor modulation.

The FMT is factory aligned to any one of the 26 FM Channels. The last two digits of the serial number represent the FM channel produced. When ordering, specify the FM channel you desire.

FM TRANSMITTER MODEL FMT-1100

SPECIFICATIONS

Input: Frequency Range.....	50 cps to 60 kc
Level.....	1.0 v p-p for ± 75 kc deviation
Impedance, Switchable.....	620 ohms ("Lo") or 250 K ("Hi")
Output: Frequency Range.....	89 mc to 107.75 mc at 0.75 mc channel spacing
Level, Maximum.....	+46 dbmv (0.2v)
Level, Control Range.....	25 db
Impedance.....	75 ohms
VSWR.....	1.2:1
Stereo Channel Separation.....	35 db
Hum and Noise.....	55 db down at 75 kc deviation
Fittings: Audio In.....	Phono Jack
RF Out.....	ER-300 (UHF)
Audio Test.....	Phono Jack
Output Test.....	ER-400 (59)
AFC Test, IF Test.....	Phone Tip Jacks
Fuses: Primary.....	3AG, 2 amp, 250 v
B+ Bus.....	3AG, 0.4 amp, 125 v slow blow
Semiconductors.....	(1) IN34A Meter Rectifier (2) HC7001 AFC Capacitors (2) SL-550 Power Rectifier
Tubes.....	(1) 5726 AFC Discriminator (2) 6686 Oscillator-Mixer and AFC Amplifier (1) 6922 Audio Amplifier (1) 6939 RF Multiplier (1) 7643 Reactance Tube and Oscillator
Switches.....	Input Impedance: HI-LO AFC: AUTO-MANUAL Pre-emphasis: IN-OUT
Controls.....	DEVIATION OUTPUT LEVEL METER CALIBRATE
Power Requirements.....	115 v, 60 cps, 30 w
Dimensions.....	19"L x 7"W x 6"D
Mounting.....	Standard 19-inch rack
Weight.....	15 lbs, 5 oz.



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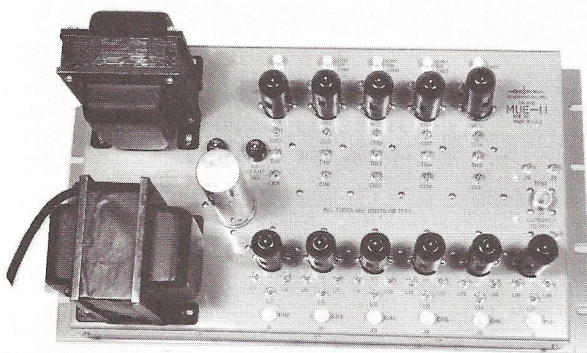


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MODEL MUE-11

- ✓ Complete Electronic Mixing
- ✓ 1 FM and 4 High and 5 Low VHF Inputs
- ✓ Gain of 6 db to TV Channels and 2 db to FM Signals
- ✓ Two Output Test Points
- ✓ 10,000 Hour Tubes Throughout
- ✓ Long Life Silicon Rectifiers
- ✓ Self-Contained Power Supply

Here is the new all band electronic mixer the whole industry is talking about. The MUE-11, after thorough static and dynamic tests has proven itself to be truly the perfect all band electronic mixer. The MUE-11 has all of the features of previous MUE Models plus 10,000 hour tubes and silicon rectifiers. These components provide the utmost reliability.

Noise interference and intercoupling between this mixer and other rack-mounted units is minimized by a low pass filter in the power transformer primary circuit.

In addition to the output jack for connection to the trunkline, two test jacks are provided. One is for FSM measurements, the other is for a TV monitor. By observing and recording measurements made under normal operating conditions, the system operator can quickly check the signals when a problem arises. This greatly facilitates isolation and correction of a malfunction.

ELECTRONIC ALL BAND MIXER MODEL MUE-11

SPECIFICATIONS

	Low Band	FM	High Band	Common to All Bands
Gain.....	6 db	2 db	6 db	
Frequency Response.....	± 0.5 db	± 0.5 db	± 0.5 db	
Input and Output Impedance.....	75 ohms	75 ohms	75 ohms	
Maximum Input Level Each Channel.....	+50 dbmv	+50 dbmv	+54 dbmv	
Recommended Input Level Each Channel.....	+47 dbmv	+47 dbmv	+51 dbmv	
Input Terminals.....	J2 for Ch. 2	J1 for FM	J7 for Ch. 7 or 8	
	J3 for Ch. 3		J8 for Ch. 9 or 10	
	J4 for Ch. 4		J9 for Ch. 11 or 12	
	J5 for Ch. 5		J10 for Ch. 13	
	J6 for Ch. 6		J11 for a channel in the 162 to 168 mc band	
Maximum Output Level Each Channel.....	+56 dbmv	+56 dbmv	+60 dbmv	
Recommended Output Level Each Channel.....	+53 dbmv	+53 dbmv	+57 dbmv	
Test Points.....				2
Test Point Level.....				38 db ± 2 db below output level
Fittings, Input.....				(11) ER-102
Combined Out.....				(1) ER-304
Test Points.....				(2) ER-400
Gain Stability for ± 10 volts Line Voltage Change.....	± 0.3 db	± 0.3 db	± 0.3 db	
Fuses, Primary.....				3 AG, 2 amp, 125 v slow blow
B+ Bus.....				3 AG, 1/2 amp, 250 v
Semiconductors.....				(2) SL-550
Tubes.....				(11) 12BY7A
Power Requirements.....				115 v, 6 cps, 125 w
Dimensions.....				19"L x 10 1/2"W x 5 1/2"D
Mounting.....				Standard 19 inch rack
Weight.....				36 lbs.



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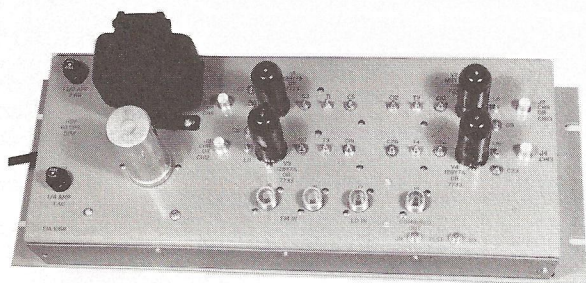
ELECTRONIC HIGH BAND MIXER MODEL MUH-4

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MUH-4

- ✓ High Band Electronic Mixing
- ✓ Seven Inputs—4 High and 1 Low VHF and 2 FM
- ✓ Low Band and FM Combined Passively
- ✓ Two Output Test Points
- ✓ 10,000 Hour Tubes Throughout
- ✓ Long Life Silicon Rectifiers
- ✓ Self-Contained Power Supply

The MUH-4 is the newest of the Entron line of quality components for the CATV industry. The MUH-4 has several special design features that place it far in front of the competition. Silicon rectifiers and 10,000 hour tubes have improved reliability remarkably. The MUH-4 is designed to operate by itself or in conjunction with a VHF low band mixer such as Entron's MUE-5. The VHF low band signals from the MUE-5 are fed into the low VHF input of the MUH-4 and mixed passively with two FM signals coming into the FM inputs of the MUH-4. The low band and FM signals are combined passively with the electronically mixed high band in one composite output. The MUH-4 is ideally suited to system additions. Both high band VHF and FM can be added to an existing system with an MUH-4.

ELECTRONIC HIGH BAND MIXER MODEL MUH-4

SPECIFICATIONS

Gain, High Band.....	6 db
Insertion Loss, Low Band.....	2.5 db
FM.....	10 db
Frequency Response, High Band.....	± 0.25 db
Low Band and FM.....	± 0.5 db
Input and Output Impedance.....	75 ohms
Input VSWR.....	1.2:1
Maximum Input Level Each High Band Channel.....	+54 dbmv
Recommended Input Level Each High Band Channel.....	+51 dbmv
Input Terminals.....	J1 for Ch. 7 or 8, J2 for Ch. 9 or 10, J3 for Ch. 11 or 12, J4 for Ch. 13, J5 for Low Band, and J9 and J10 for FM Signals
Maximum Output Level Each High Band Channel.....	+60 dbmv
Recommended Output Level Each High Band Channel.....	+57 dbmv
Test Points.....	2
Test Point Level.....	38 db ± 2 db below output level
Fittings, High Band In.....	(4) ER-102
Low Band In.....	(1) ER-304
FM In.....	(2) ER-304
Combined Out.....	(1) ER-304
Test Points.....	(2) ER-400
Gain Stability for ± 10 volts Line Voltage Change.....	± 0.3 db
Fuses, Primary.....	3AG, 1½ amp, 250 v
B+ Bus.....	3AG, ¼ amp, 250 v
Semiconductors.....	(2) 6SL550
Tubes.....	(4) 6X4/12BY7A
Power Requirements.....	115 v, 60 cps, 0.4 amps
Dimensions.....	19"L x 7"W x 5½"D
Mounting.....	Standard 19-inch rack
Weight.....	14.75 lbs.



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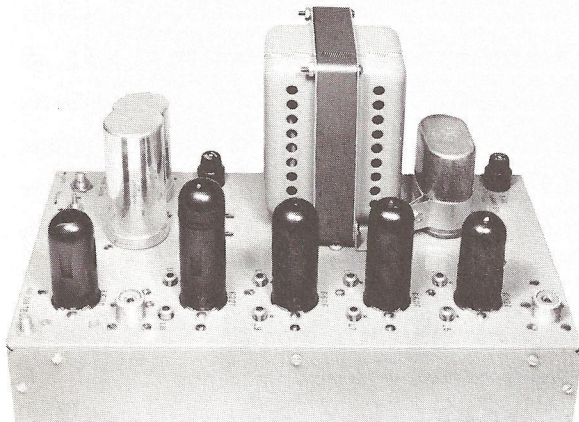
BROAD BAND LINE AMPLIFIER MODEL LRA-40C

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MODEL LRA-40C

- ✓ Low Band VHF Repeater
- ✓ 10,000 Hour Tubes Throughout
- ✓ Automatic Level Control
- ✓ Silicon Rectifiers
- ✓ Super Reliability
- ✓ Matched Input and Output
- ✓ Built-In Line Filter
- ✓ Regulating Transformer
- ✓ Readily Accessible Output Test Point With Flat Frequency Response

The LRA-40C has been designed to provide the ultimate in reliability and versatility in a low band trunk line amplifier. Beginning with a full array of 10,000 hour tubes and a regulating transformer, the construction and specifications of the LRA-40C represent the highest quality.

The LRA-40C provides for easy future expansion to an all channel system. As the "sister" amplifier to Entron's HRA-400 high band trunk amplifier, it allows the system operator the option of installing a low band system today and expanding to an all band system at a later date without obsoleting his low band equipment.

Also, as a result of the long-life components used throughout the LRA-40C, the system operator can substantially reduce trunk line amplifier service time by substituting the LRA-40C for existing amplifiers.

BROAD BAND LINE AMPLIFIER MODEL LRA-40C

SPECIFICATIONS

Bandwidth.....	54 mc to 88 mc
Gain at Channel 6.....	40 db
Tilt, Factory Aligned (Ch 6 over Ch 2).....	8 db
Frequency Response.....	± 0.25 db
Impedance, In and Out.....	75 Ω
VSWR, Input.....	1.3:1
VSWR, Output.....	1.3:1
Noise Figure.....	7.5 db
Minimum Input Level for Proper ALC.....	+4 dbmv
Maximum Input Level.....	+14 dbmv
Recommended Input Level.....	+9 dbmv
Maximum Output Level at Ch 6 (8 db tilt).....	+42 dbmv
Test Point Level.....	40 db below output level
Fittings, In and Out.....	ER-300 (UHF)
Fittings, Test Point.....	ER-400 (59)
Gain Control Range.....	10 db
Tilt Range.....	0 to 8 db
ALC (Maximum Output Variation for Input Variation from +4 to +14 dbmv).....	1.5 db
ALC Reference.....	Composite Signals
Output Level Range for Proper ALC.....	+34 dbmv to +42 dbmv
Stability for $\pm 20\%$ Line Voltage Variation.....	± 0.2 db
Fuse, Primary.....	3AG 1 amp 125 v slow blowing
Fuse, B+.....	3AG 0.3 amp 250 v
Semiconductors.....	(4) SL550 (2) 1N54G
Tubes.....	(1) 6922 (2) 6686 (1) 6227 (1) 6688
Power Requirements.....	90 to 130 v 60 cps 0.5 amp
Dimensions.....	12" x 6 $\frac{3}{4}$ " x 7 $\frac{1}{2}$ "
Weight.....	10 $\frac{1}{2}$ lb



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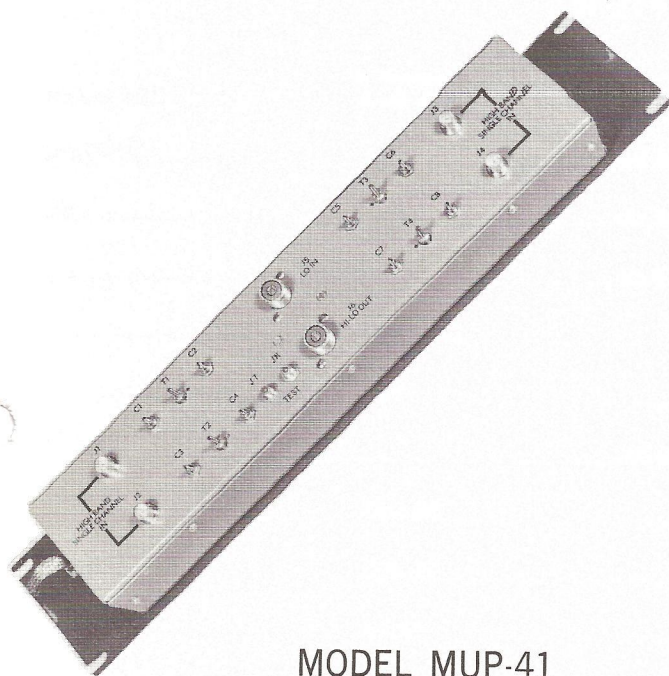
HIGH-LOW MIXER FM, HIGH & LOW VHF MODEL MUP-41

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MODEL MUP-41

- ✓ Mixes FM, High and Low VHF
- ✓ A Purely Passive Device
- ✓ Flat Response
- ✓ Low Loss
- ✓ Provides Excellent Isolation
- ✓ Two Output Test Points
- ✓ High Quality
- ✓ Trouble Free
- ✓ Standard Rack Mounting

The MUP-41 meets the industry's highest standards for a low loss mixer. High VHF, low VHF, and FM may be combined or separated. Up to four non-adjacent VHF high band TV channels may be combined with up to five VHF low band channels and the entire FM band. Various signals applied to the multiple inputs are combined in the common output.

High quality components are used throughout to insure uninterrupted, trouble-free service. Therefore, accessibility is not a major factor when installing the MUP-41. Also, the use of high quality components minimizes insertion loss.

Four single-channel bandpass filters in the MUP-41 are tuneable to any one of the high band VHF TV channels. Through these four filters the high band channels are combined with the low band channels in a special high-pass and low-pass complementary filter.

HIGH-LOW MIXER FM, HIGH & LOW VHF MODEL MUP-41

SPECIFICATIONS

	High Band	Common to Both Bands	Low Band and FM
Bandwidth.....	6 mc.....		54-95 mc.....
Insertion Loss.....	2.5 db.....		1 db.....
Nonadjacent Channel Rejection.....	15 db.....		
Impedance, Input.....		75 Ω	
Output.....		75 Ω	
Fittings, Input.....	ER-102.....		ER-303.....
Output (Combined).....		ER-303.....	
Test.....		ER-400.....	
Power Requirements.....		None.....	
Dimensions.....	19"L x 3"W x 2 $\frac{1}{8}$ "D.....		
Weight.....	5 $\frac{1}{2}$ lb.....		



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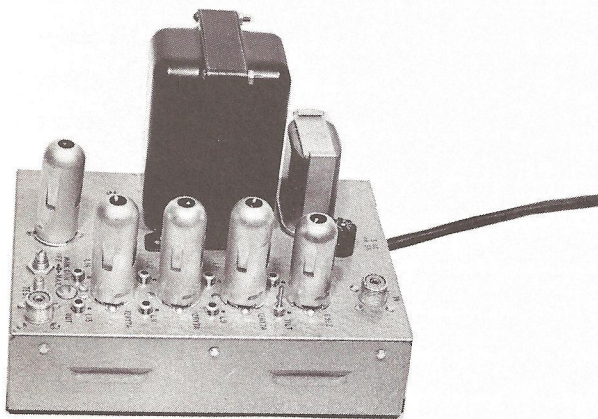


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MODEL LRA-40B

- ✓ Low Band VHF Repeater
- ✓ 10,000 Hour Input Tube
- ✓ Automatic Level Control
- ✓ Single Tilt Adjustment
- ✓ Long Life Silicon Rectifiers
- ✓ Built-In Line Filter
- ✓ Low Power Consumption
- ✓ Output Test Point
- ✓ Regulating Transformer

A review of the LRA-40B yields the reasons why it has become the industry standard for a low band, trunk line amplifier.

The LRA-40B has been designed to compensate for up to 36 db signal attenuation in the trunk line. The unit incorporates an automatic level control circuit which serves to maintain a constant output level despite tube ageing and changes in cable attenuation due to temperature variations.

In addition to meeting the requirements for a trunk line amplifier in an existing low band system, the LRA-40B will not be obsoleted when the system operator wishes to add high band channels. Entron's "Adaband" concept permits the addition of high band amplifiers, such as the HRA-400 and HRA-406, to systems presently utilizing the LRA-40B.

The amplifier is designed for pole crossarm mounting in a weatherproof cabinet.

BROAD BAND LINE AMPLIFIER MODEL LRA-40B

SPECIFICATIONS

Bandwidth.....	53 to 89 mc
Gain Channel 6 (Manual Gain at Maximum) 8 db Tilt.....	42 db
Tilt Factory Aligned (Ch 6 over Ch 2).....	8 db
Frequency Response.....	± 0.25 db
Impedance, In and Out.....	75 Ω
VSWR In.....	1.5:1
Noise Figure.....	8.5 db
Minimum Input Level (5 Channel) for Proper ALC Action.....	+1 dbmv
Maximum Input Level.....	+14 dbmv
Recommended Input Level.....	+8 dbmv
Maximum Output Level (8 db Tilt).....	+42 dbmv at Channel 6
Test Point Level.....	36 db below output
Fittings In and Out.....	ER-300 (UHF)
Fittings Test Point.....	ER-400 (59)
Gain Control Range.....	Gain of Amplifier
Tilt Control Range (Ch 6 over Ch 2).....	4 db to 8 db
ALC (Maximum Output Variation for 10 db Input Variation).....	2 db
ALC Reference.....	Composite Signals
Output Level Control Range for Proper ALC.....	+36 to +42 dbmv at Ch 6
Stability for $\pm 20\%$ Line Voltage Variation.....	± 0.2 db
Fuses, Primary.....	3AG 1 amp 250 v
Semiconductors.....	(2) 60M (1) 1N1081 (2) 1N54A (1) 1N305
Tubes.....	(1) 6922 (4) 12BY7A
Power Requirements.....	90 to 130 v 60 cps 0.55 amp
Dimensions, Overall.....	7 $\frac{1}{4}$ " x 6 $\frac{3}{4}$ " x 9 $\frac{1}{2}$ "
Weight.....	8 lb 12 oz



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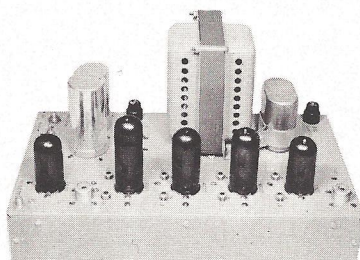


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REMOTE ALC LINE AMPLIFIER LOW VHF REPEATER

- ✓ 10,000 Hour Tubes Throughout
- ✓ Automatic Level Control
- ✓ Silicon Rectifiers
- ✓ Improved Construction
- ✓ Readily Accessible Output Test Point With Flat Frequency Response
- ✓ Super Reliability
- ✓ Matched Input and Output
- ✓ Built-In Power Diplexer
- ✓ Regulating Transformer



MODEL LRA-640C

Bandwidth	54 mc to 88 mc
Gain at Channel 6	40 db
Tilt, Factory Aligned (Ch 6 over Ch 2)	8 db
Frequency Response	±0.25 db
Impedance, In and Out	75 Ω
VSWR, Input	1.3:1
VSWR, Output	1.3:1
Noise Figure	7.5 db
Minimum Input Level for Proper ALC	+4 dbmv
Maximum Input Level	+14 dbmv
Recommended Input Level	+9 dbmv
Maximum Output Level at Ch 6 (8 db tilt)	+42 dbmv
Test Point Level	40 db below output level
Fittings, In and Out	ER-300 (UHF)
Fittings, Test Point	ER-400 (59)
Gain Control Range	10 db
Tilt Range	0 to 8 db
ALC (Maximum Output Variation for Input Variation from +4 to +14 dbmv)	1.5 db
ALC Reference	Composite Signals
Output Level Range for Proper ALC	+34 dbmv to +42 dbmv
Stability for ± 20% Line Voltage Variation	±0.2 db
Fuse, Primary	3AG 1.5 amp 125 v slow blowing
Fuse, B+	3AG 0.3 amp 250 v
Semiconductors	(4) SL550 (2) 1N54G
Tubes	(1) 6922 (2) 6686 (1) 6227 (1) 6688
Power Requirements	45 to 60 v 60 cps 1 amp*
Dimensions	12" x 6-3/4" x 7-1/2"
Weight	10-1/2 lb

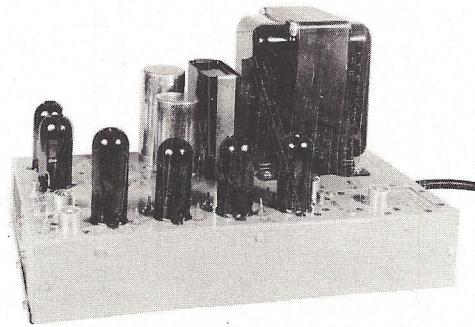
* Use Entron RPT Series Power Transformer.

CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPARTMENT NOW!



ALL BAND LONG LIFE ALC LINE AMPLIFIER HIGH VHF REPEATER

- ✓ Companion to Existing Repeater to Add High VHF to System
- ✓ 10,000 Hour Tubes Throughout
- ✓ Long Life Silicon Rectifiers
- ✓ Automatic Level Control
- ✓ Flat Frequency Response
- ✓ Matched Input and Output
- ✓ Test Point with Flat Frequency Reponse
- ✓ Highly Reliable
- ✓ Built-In Band Splitting and Combining Filters



MODEL HRA-400

Bandwidth	174 mc to 216 mc
Gain at Channel 13	34 db
Tilt, Factory Aligned	3 db (Ch 13 over Ch 7)
Frequency Response	±0.5 db
Impedance, In and Out	75 Ω
VSWR, In and Out	1.2:1
Minimum Input Level	+6 dbmv
Maximum Input Level	+15 dbmv
Recommended Input Level	+10 dbmv
Maximum Output Level	+40 dbmv
Input Test Point Level	- 20 db
Output Test Point Level	- 30 db
Fittings, In and Out	ER-300 (UHF)
Fittings, Test Point In and Out	ER-400 (59)
Gain Control Range	34 db
Tilt Control Range	3 db to 0 db (Ch 13 over Ch 7)
ALC (Maximum Output Variation for 10 db Input Variation)	1.0 db
ALC Reference	Composite Signals
Output Level Range for Proper ALC (4 Ch)	+30 to +40 dbmv
Stability for ± 20% Line Voltage Variation	±.25 db
Fuses	3AG 1 amp 125 v slow blowing 3AG 3/10 amp 250 v
Semiconductors	(4) SL550 (2) 1N54G
Tubes	(1) 6922 (4) 6688 (1) 7733
Power Requirements	115 v 60 cps 55 w
Dimensions	7-3/16" x 12-1/8" x 6-5/8"
Weight	14 lb

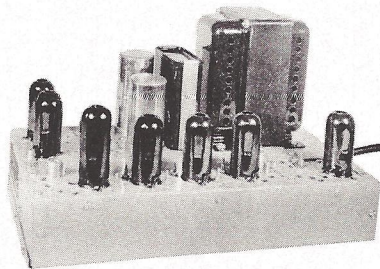
CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPARTMENT NOW!



ALL BAND LONG LIFE AMPLIFIER

LOW AND HIGH VHF

- ✓ Trunkline Midsection Compensator
- ✓ Flat Frequency Response
- ✓ 10,000 Hour Tubes Throughout
- ✓ Matched Input and Output
- ✓ Long Life Silicon Rectifiers
- ✓ Test Point with Flat Frequency Response
- ✓ High Band Automatic Level Control
- ✓ Highly Reliable



MODEL HRA-406

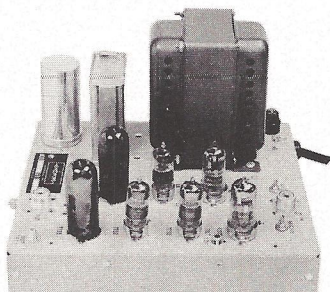
	Low	High
Bandwidth	54 mc to 90 mc	174 mc to 216 mc
Gain	5 db maximum	34 db maximum (Ch 13)
Tilt, Factory Aligned	Flat	3 db (Ch 13 over Ch 7)
Frequency Response	±0.25 db	±0.5 db
Impedance, In and Out		75 Ω
VSWR, In and Out		1.2:1
Minimum Input Level		+6 dbmv
Maximum Input Level	+26 dbmv	+15 dbmv
Recommended Input Level		+10 dbmv
Maximum Output Level	+31 dbmv	+40 dbmv
Input Test Point Level		-20 db
Output Test Point Level		-30 db
Fittings, In and Out		ER-300 (UHF)
Fittings, Test Point In and Out		ER-400 (59)
Gain Control Range	5 db	34 db
Tilt Control Range		3 db to 0 db (Ch 13 over Ch 7)
ALC (Maximum Output Variation for 10 db Input Variation)		1.0 db
ALC Reference		Composite Signals
Output Level Range for Proper ALC		+30 to +40 dbmv
Stability for ± 20% Line Voltage Variation		±0.25 db
Fuses	3AG 1 amp 125 v slow blowing	
	3AG 3/10 amp 250 v	
Semiconductors	(4) SL550 (2) 1N54G	
Tubes	(2) 6922 (4) 6688 (1) 7733	
Power Requirements	115 v 60 cps 60 w	
Dimensions	7-1/4" x 12" x 6-5/8"	
Weight	14 lb	

CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPARTMENT NOW!



ALL BAND LINE EXTENDER AMPLIFIER LOW AND HIGH VHF

- ✓ 10,000 Hour Tubes Throughout
- ✓ Flat Frequency Response
- ✓ Silicon Rectifiers
- ✓ Adjustable Tilt
- ✓ Separate Gain Controls Each Band
- ✓ High Gain
- ✓ Regulating Transformer
- ✓ Low Cost

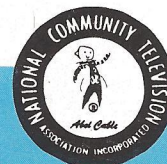


MODEL ABX-40R*

	Low Band	Common To Both Bands	High Band
Bandwidth	54 mc to 88 mc		174 mc to 216 mc
Gain	38 db		38 db
Tilt, Favoring High End of Pass Band	2.5 db		2.0 db
Flatness	±0.75 db		±0.75 db
Impedance, In and Out		75 Ω	
VSWR In		1.5:1	
Noise Figure	8.5 db		8.5 db
Maximum Input Level	+26 dbmv		+26 dbmv
Maximum Output Level	+46 dbmv		+46 dbmv
Test Point Level	37 db below output		34 db below output
Fittings, In and Out		ER-300 (UHF)	
Fittings, Test Point		ER-400	
Gain Control Range	20.0 db		20.0 db
Tilt Control Range	±1.0 db		±1.0 db
Stability for ± 20% Line Voltage Variation	±.2 db		±.2 db
Fuses, Primary		3AG 1 amp 250 v	
Semiconductors		(2) SL550	
Tubes	(1) 6922 (1) 7732 (1) 7733		(1) 6922 (2) 7732 (1) 7733
Power Requirements		90 to 130 v 60 cps 60 w	
Dimensions		7" x 9-1/2" x 8"	
Weight		11-3/4 lb	

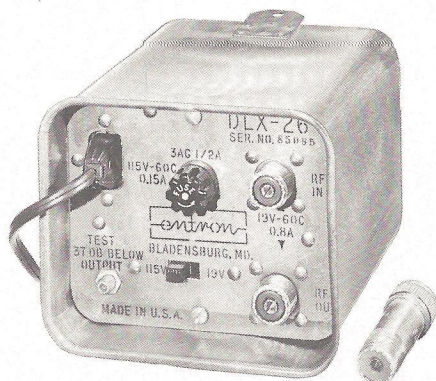
* For Standard (Non-Regulating) Transformer and Standard Tubes Omit Suffix "R".

CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPARTMENT NOW!



LINE EXTENDER AMPLIFIER LOW VHF

- ✓ 10,000 Hour Input Tube
- ✓ Self Contained Power Supply
- ✓ High Output Handling Capability
- ✓ Mounts by Tab or Quick-Mounting Bracket, Model QAB**
- ✓ Silicon Rectifier
- ✓ Weatherproof Enclosure
- ✓ Local or Remote Powering*

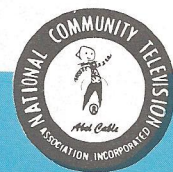


MODEL DLX-26

Bandwidth	54 mc to 88 mc
Gain	20 db
Tilt, Factory Aligned (Ch 6 over Ch 2)	4 db
Frequency Response	±0.75 db
Impedance, In and Out	75 Ω
VSWR, In	1.5:1
Noise Figure	9 db
Maximum Input Level	+21 dbmv
Maximum Output Level	+41 dbmv
Test Point Level	37 db below output
Fittings, In and Out	ER-300 (UHF)
Fittings, Test Point	ER-400 (59)
Fuses, Primary	3AG 1/2 amp 250 v
Semiconductors	(2) 60M
Tubes	(1) 6922 (1) EF91
Power Requirements	115 v 60 cps 12 w
Or	19 v 60 cps 12 w*
Dimensions (Overall)	4" x 4-3/4" x 6-1/4"
Weight	3 lb 7 oz

* For Remote Powering Use Entron Model RPS-B Power Supply
** Order Separately

CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPARTMENT NOW!



ALL BAND AMPLIFIER LOW AND HIGH VHF AND FM

- ✓ Silicon Rectifiers
- ✓ High Output
- ✓ High Gain
- ✓ Excellent Noise Figure
- ✓ Flat Frequency Response
- ✓ Separate High & Low Band Gain Controls
- ✓ For Apartments, Hotels, Motels, Hospitals, and Schools



MODEL FA-283

	Low Band	Common To Both Bands	High Band
Bandwidth	54 mc to 88 mc		174 mc to 216 mc
Bandwidth, FM	88 mc to 108 mc		
Gain	38 db		38 db
Gain, FM	32 db		
Frequency Response	±0.5 db		±1 db
Impedance, In and Out		75 Ω	
VSWR, In		1.5:1	
Noise Figure		8 db	
Maximum Input Level		+26 dbmv	
Maximum Output Level	+53 dbmv (3 Ch)		+50 dbmv (4 Ch)
Fittings		ER-701 (Tug-Plug)	
Gain Control Range	13 db		13 db
Tilt Control Range	Flat to 4 db (Ch 6 over Ch 2)		Flat to 4 db (Ch 13 over Ch 7)
Fuse		3AG 1 amp 250 v	
Semiconductors		(2) SL550	
Tubes		(2) 6DJ8 (4) 6CB6A (2) 12BY7A	
Power Requirements		115 v 60 cps 55 w	
Dimensions		5" x 12" x 4-3/4"	
Weight		6-3/4 lb	

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CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPARTMENT NOW!





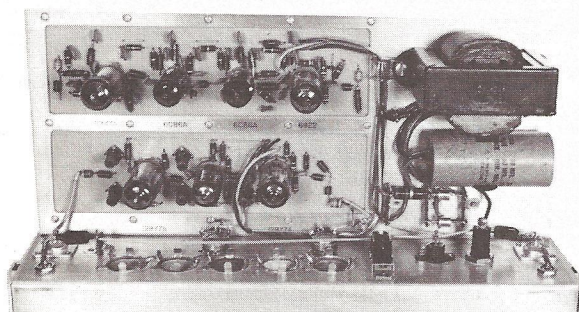
HIGH AND LOW BAND
EXTENDER AMPLIFIER
MODEL ABX-640

P. O. BOX 287

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Interior View
MODEL ABX-640

- ✓ Remotely Powered
- ✓ High and Low VHF
- ✓ Weatherproof Aluminum Housing
- ✓ Clamps for Strand Mounting
- ✓ Separate Gain and Tilt Controls for High and Low Bands
- ✓ Flat Frequency Response
- ✓ High Gain
- ✓ 10,000 Hour Input Tubes

The ideal weather-proofed line extender amplifier, Entron's ABX-640, is built for rugged dependability. The ABX-640 was designed to fit the need for a durable, trouble-free amplifier to be used in distribution lines which are being converted to high and low band operation.

The ABX-640 does not require a separate power station. It can be fed 60 volt, 60 cycle power from its input or output line terminals. This power can be fed through the coaxial cable from a remote power transformer (such as Entron's RPT-625) located in a nearby amplifier station. A switch located on the underside of the ABX-640 provides remote power control. The switch is wired to permit shutting off power going down the line.

HIGH AND LOW BAND
EXTENDER AMPLIFIER
MODEL ABX-640

SPECIFICATIONS

	Low Band	Common to Both Bands	High Band
Bandwidth.....	54-95 mc.....		174-216 mc.....
Gain.....	33 db.....		34 db.....
Tilt (Factory Aligned) Favoring Higher Channels.....	2 db.....		1 db.....
Frequency Response.....	±0.5 db.....		±0.5 db.....
Impedance, In and Out.....		75 ohms.....	
VSWR, In.....		1.5:1.....	
Noise Figure.....	8.5.....		9.5.....
Maximum Input Level.....	+26 dbmv.....		+26 dbmv.....
Maximum Output Level.....	+46 dbmv.....		+46 dbmv.....
Test Point Level.....		20 db below input level..... 40 db below output level.....	
Fittings, In and Out.....		ER-303 (UHF).....	
Test.....		ER-400.....	
Remote Power.....		ER-701.....	
Gain Control Range.....	20 db.....		20 db.....
Tilt Control Range.....	+1 db; -2 db.....		±1 db.....
Gain Stability for 10% Line Voltage Variation.....	2 db.....		2 db.....
Tubes.....	(1) 6922..... (1) 6CB6A..... (1) 12BY7A.....		(1) 6922..... (2) 6CB6A..... (1) 12BY7A.....
Semiconductors.....		(2) PT560.....	
Fuse, Primary.....		3AG, 1 amp, 125 v.....	
Power Requirements.....		54-60 v, .68-.79 amps, 35-45 watts, 60 cps.....	
Dimensions.....		14"L x 15"W x 7"D.....	
Mounting Clamp (for strand suspension).....		Entron #23-06-0091.....	
Weight.....		9 lbs.....	



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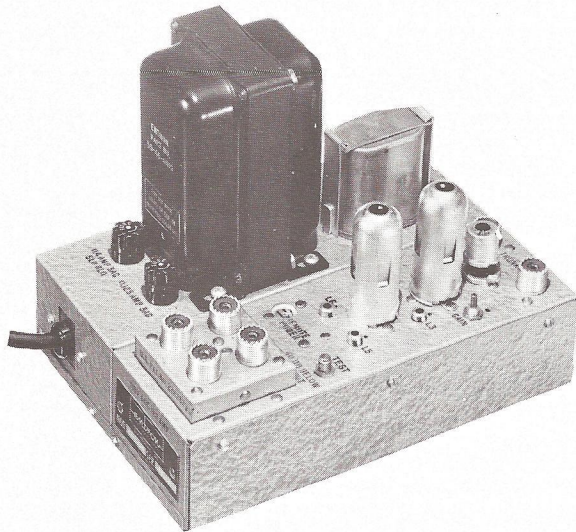
BRIDGING AMPLIFIERS BA-134 SERIES

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MODEL BA-134R

- ✓ 13 db Gain per Output
- ✓ Four Outputs
- ✓ Adjustable Tilt
- ✓ Gain Control
- ✓ Low VHF Range
- ✓ Line Impedance of 75 Ohms
- ✓ Line Attenuation of 0.5 db
- ✓ Very Low VSWR

The BA-134 Series is the ideal answer to your trunkline needs for a medium-gain bridging amplifier. The four distribution line outputs of the BA-134 Series are capable of feeding up to 160 subscribers without affecting the characteristics of the trunkline or the signals carried thereon.

The BA-134 and BA-134R have a tilt control range of 4 db, channel 2 over channel 6. A manual gain control provides a 3 db variation. The gain control together with attenuator pads (0 db pad supplied) provide total gain control.

Both models include an integral line filter which prevents interference or signal leakage between the amplifier and the power line in both directions.

The BA-134R is available with a regulating transformer to compensate for variations in line voltage (from 90 to 130 volts) to assure longer tube life and more stable operation.

BRIDGING AMPLIFIERS BA-134 SERIES

SPECIFICATIONS

Pass Band.....	54 to 88 mc
Thru-line Impedance.....	75 ohms
VSWR.....	1.2:1
Attenuation.....	0.5 db
Distribution Line Outputs.....	4
Output Impedance.....	75 ohms
Maximum Input Level per Channel (JA-0 Pad and 5-Channel Operation)	
Noncascaded.....	+33 dbmv
Cascaded.....	+30 dbmv
Gain at Channel 2 (After Factory Alignment for 4 db Tilt Channel 2 over Channel 6).....	13 db
Maximum Output Level, 5-Channel Operation	
Noncascaded.....	+43 dbmv
Cascaded.....	+40 dbmv
Gain Control Range.....	3 db
Test Point Level.....	4 db below output level
RF Isolation (Output to Remote Power Socket) Channel 2.....	55 db
Channel 6.....	45 db
Fittings, In and Out.....	ER-300
Test Point.....	ER-400
Remote Power.....	ER-701
Tubes.....	(2) 12BY7A
Silicon Rectifiers.....	(2) 60M (or SL 550—if the serial number is preceded by "A")
Fuses, Primary.....	3AG, ½ amp, 125 v, slow blow
B+ Bus.....	3AG, ½ amp, 250 v
Stability per ±10% Line Voltage Variation.....	BA-134, ±1.3 db BA-134R, ±0.25 db
Power Requirements.....	BA-134, 115 v, 60 cps, 20 w BA-134R, 115 v, 60 cps, 25 w
Dimensions, Overall.....	BA-134, 5½"H x 6¾"W x 9½"D BA-134R, 7¼"H x 6¾"W x 9½"D



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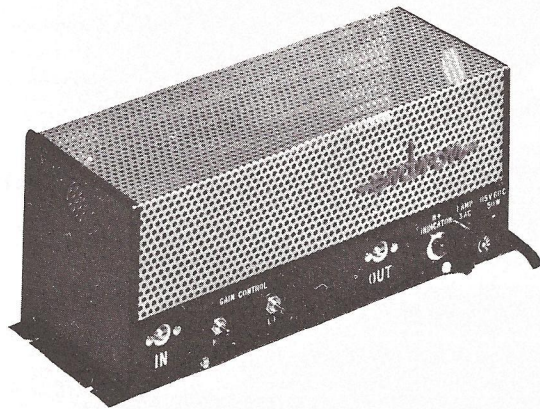


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MODEL SA-23

- ✓ High Gain
- ✓ High Output
- ✓ Excellent Noise Figure
- ✓ Flat Frequency Response
- ✓ Separate High & Low Band Gain Controls
- ✓ Silicon Rectifiers
- ✓ Choice of UHF or Tug-Plug Fittings

The SA-23 amplifier has been specifically designed for use in a system where the television signal is to be distributed to a large number of outlets in a single building. The unit is designed to amplify VHF channels 2 thru 6 and 7 thru 13 simultaneously. The quality components incorporated in the SA-23 and its unique engineering features have made it a leader in the industry. It is especially suited for use in apartment buildings, motels, hotels, hospitals, and schools.

The SA-23 is used to distribute the television signals from a broadband antenna where all the signals are relatively strong. When single channel antennas and amplifiers are used in a semi-fringe or fringe area, the mixed outputs from the single channel amplifiers are fed to the SA-23 and then distributed throughout the building. The SA-23 can also be used in conjunction with single channel amplifiers where it is necessary to distribute both strong and weak signals.

BROAD BAND AMPLIFIER MODEL SA-23

SPECIFICATIONS

	Low Band	Common To Both Bands	High Band
Bandwidth.....	54 mc to 88 mc		174 mc to 216 mc
Gain.....	38 db		38 db
Frequency Response.....	± 0.5 db		± 1 db
Impedance, In and Out.....		75 Ω	
VSWR, In.....		1.5:1	
Noise Figure.....		7.5 db	
Maximum Input Level.....		+26 dbmv	
Maximum Output Level.....	± 53 dbmv (3 Chs.)		+50 dbmv (4 Chs.)
Fittings, Specify		SA-23 (Tug Plug ER-701) or SA-23U (UHF ER-300)	
Gain Control Range.....	13 db		13 db
Tilt Control Range.....	Flat to 4 db (Ch 6 over Ch 2)		Flat to 4 db (Ch 13 over Ch 7)
Fuse.....		3AG 1 amp 250 v	
Semiconductors.....		(2) SL550	
Tubes.....		(2) 6DJ8 (3) 6CB6A (2) 12BY7A	
Power Requirements.....		115 v 60 cps 50 w	
Dimensions.....		5" x 12" x 4 $\frac{3}{4}$ "	
Weight.....		6 $\frac{3}{4}$ lb	

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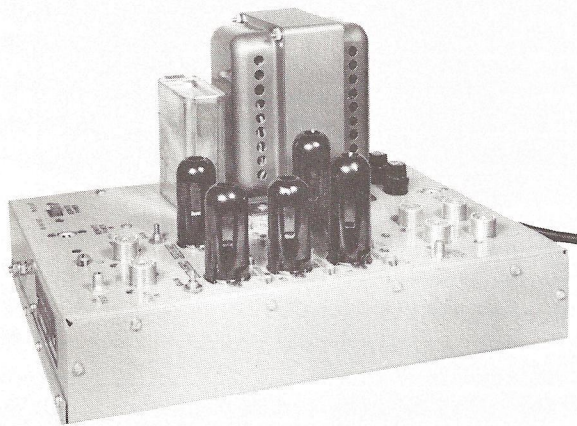
BROADBAND
BRIDGING AMPLIFIERS
MODELS: 154, 154R, 6154

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MODEL LHB-154R

- ✓ Low and High VHF
- ✓ 15 db Gain at Each Output
- ✓ 10,000 Hour Tubes Throughout
- ✓ Excellent Match
- ✓ Remote Power In and Out Jacks
- ✓ Silicon Rectifiers
- ✓ Minimum Effect on Trunkline
- ✓ Regulating Transformer in LHB-154R and LHB-6154

The LHB-154 Series of bridging amplifiers consists of three models. The LHB-154 is non-regulated; the LHB-154R contains a regulated transformer; the LHB-6154 is remotely powered by an Entron RPT remote power transformer.

All three units are designed for installation at convenient locations in trunk or distribution lines and provide 15 db gain on both high and low band at each of four outputs. The LHB's incorporate circuitry which limits the throughline attenuation to less than one db.

Each of the LHB's contain input and output test points for servicing without system interruption as well as a synchronized tilt control and independent low band and high band tilt controls.

Separate high and low band gain controls permit the gain to be varied from maximum to unity without additional accessories.

BROADBAND
BRIDGING AMPLIFIERS
MODELS: 154, 154R, 6154

SPECIFICATIONS

Bandwidth, Low.....	54-88 mc
High.....	174-216 mc
Gain.....	15 db
Frequency Response.....	± 0.5 db
Impedance, In and Out.....	75 Ω
VSWR, Trunk In.....	1.2:1
VSWR, Trunk Out.....	1.3:1
Throughline Attenuation.....	1 db maximum
Gain Control Range	
High and Low.....	Continuous
Tilt Control Range, High.....	± 1.0 db
Low.....	± 2.0 db
Tilt, Factory Aligned.....	Flat
Maximum Input Level.....	+40 dbmv at min, gain setting
Maximum Output Level.....	+40 dbmv
Output Terminals.....	Four
Stability: LHB-154 for $\pm 10\%$ Line Voltage Variation.....	± 2.5 db
LHB-154R for $\pm 20\%$ Line Voltage Variation.....	± 0.25 db
LHB-6154 for $\pm 20\%$ Line Voltage Variation.....	± 0.25 db
Test Point Level, In (High and Low).....	-22 db
Test Point Level, Out (Low).....	-33 db
(High).....	-20 db
Fittings, In and Out.....	ER-300 (UHF)
Test Point.....	ER-400 (59)
Remote Power.....	ER-701
Fuses: Primary LHB-154 & 154R.....	S.B. 3AG, 1 A, 250 V
Primary LHB-6154.....	S.B. 3AG, 2 A, 250 V
B+.....	3AG, 1/4 A, 250 V
Remote.....	3AG, 4 A, 250 V
Silicon Rectifiers.....	(2) SL550
Tubes.....	(3) 6688, (2) 7733
Power Requirements: LHB-154.....	115 v, 60 cyc., 50 w
LHB-154R.....	90-130 v, 60 cyc., 50 w
LHB-6154.....	60 v, 60 cyc., 50 w
Dimensions, Overall.....	8" x 12" x 7"
Weight.....	Approx. 14 lb



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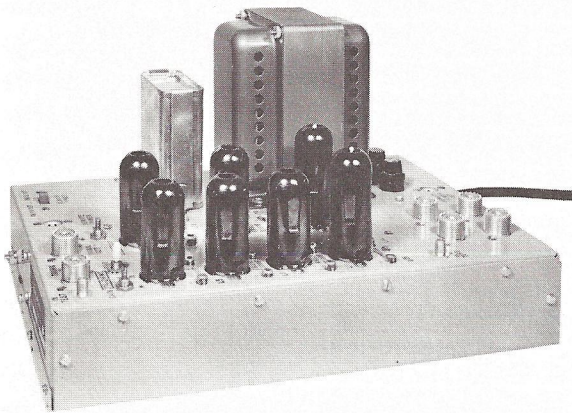
BROADBAND
BRIDGING AMPLIFIERS
MODELS: 254, 254R, 6254

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MODEL LHB-254R

- ✓ Low and High VHF
- ✓ 25 db Gain at Each Output
- ✓ 10,000 Hour Tubes Throughout
- ✓ Excellent Match
- ✓ Remote Power In and Out Jacks
- ✓ Silicon Rectifiers
- ✓ Minimum Effect on Trunkline
- ✓ Regulating Transformer in LHB-254R and LHB-6254

The LHB-254 Series of bridging amplifiers consists of three models. The LHB-254 is non-regulated; the LHB-254R contains a regulated transformer; the LHB-6254 is remotely powered by an Entron RPT remote power transformer.

All three units are designed for installation at convenient locations in trunk or distribution lines and provide 25 db gain on both high and low band at each of four outputs. The LHB's incorporate circuitry which limits the throughline attenuation to less than one db.

Each of the LHB's contain input and output test points for servicing without system interruption as well as a synchronized tilt control and independent low and high band tilt controls.

Separate high and low band gain controls permit the gain to be varied from maximum to unity without additional accessories. Also, a switchable attenuator is available for the high band to provide an additional 14 db of attenuation.

BROADBAND
BRIDGING AMPLIFIERS
MODELS: 254, 254R, 6254

SPECIFICATIONS

Bandwidth, Low.....	54-88 mc
High.....	174-216 mc
Gain.....	25 db
Frequency Response.....	±0.5 db
Impedance, In and Out.....	75Ω
VSWR, Trunk In.....	1.2:1
VSWR, Trunk Out.....	1.3:1
Throughline Attenuation.....	1 db maximum
Gain Control Range, Low.....	Continuous
High.....	+14 db switchable
Tilt Control Range, High.....	±1.0 db
Low.....	±2.0 db
Tilt, Factory Aligned.....	Flat
Maximum Input Level.....	+40 dbmv at min, gain setting
Maximum Output Level.....	+40 dbmv
Output Terminals.....	Four
Stability: LHB-254 for ±10% Line Voltage Variation.....	+2.5 db
LHB-254R for ±20% Line Voltage Variation.....	±0.25 db
LHB-6254 for ±20% Line Voltage Variation.....	±0.25 db
Test Point Level, In (High and Low).....	-22 db
Test Point Level, Out (Low).....	-33 db
(High).....	-20 db
Fittings, In and Out.....	ER-300 (UHF)
Test Point.....	ER-400 (59)
Remote Power.....	ER-701
Fuses: Primary LHB-254 & 254R.....	S.B. 3AG, 1 A, 250 V
Primary LHB-6254.....	S.B. 3AG, 2 A, 250 V
B+.....	3AG, ¼ A, 250 V
Remote.....	3AG, 4 A, 250 V
Silicon Rectifiers.....	(2) SL550
Tubes.....	(5) 6688, (2) 7733
Power Requirements: LHB-254.....	115 v, 60 cyc., 50 w
LHB-254R.....	90-130 v, 60 cyc., 50 w
LHB-6254.....	60 v, 60 cyc., 50 w
Dimensions, Overall.....	8" x 12" x 7"
Weight.....	Approx. 14 lb



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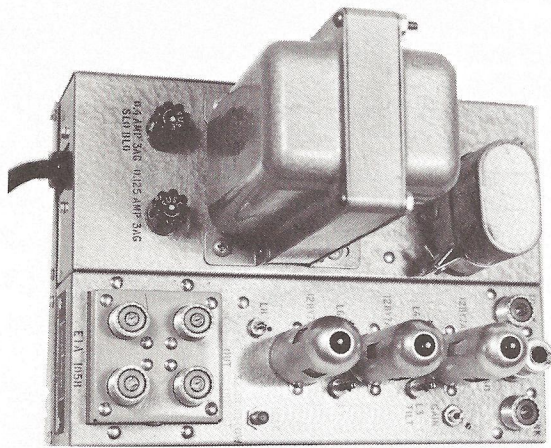
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MODEL BA-254R

- ✓ 25 db Gain per Output
- ✓ Four Outputs
- ✓ Adjustable Tilt
- ✓ Gain Control
- ✓ Low VHF Range
- ✓ Line Impedance of 75 Ohms
- ✓ Line Attenuation of 0.5 db
- ✓ Low VSWR

If you are looking for a high-gain bridging amplifier capable of feeding up to 160 subscribers without affecting the characteristics of the trunkline or the signals carried thereon, look no further. These are only some of the features of the BA-254 Series.

The BA-254 and BA-254R have a tilt control range of 4 db, channel 6 over channel 2, and 2 db, channel 2 over channel 6. A manual gain control and plug-in attenuator pads (0 db pad supplied) provide ample gain control.

Both models include an integral line filter which prevents interference or signal leakage between the amplifier and the power line in both directions.

The BA-254R is available with a regulating transformer to compensate for variations in line voltage (from 90 to 130 volts) to assure longer tube life and more stable operation.

BRIDGING AMPLIFIERS BA-254 SERIES

SPECIFICATIONS

Bandwidth.....	54 to 88 mc
Thru-line Impedance.....	75 ohms
VSWR.....	1.4:1
Attenuation.....	0.5 db
Distribution Line Outputs.....	4
Output Impedance.....	75 ohms
Maximum Input Level Per Channel (JA-0 Pad and 5-Channel Operation)	
Noncascaded.....	+22 dbmv
Cascaded.....	+19 dbmv
Gain.....	24 db
Maximum Output Level (5-Channel Operation)	
Noncascaded.....	+42 dbmv
Cascaded.....	+39 dbmv
Gain Control Range.....	3 db
Tilt Control Range.....	4 db Ch 6/Ch 2 to 2 db Ch 2/Ch 6
Test Point Level.....	40 db below output level
RF Isolation (Output to Remote Power Socket)	
Channel 2.....	55 db
Channel 6.....	45 db
Fittings, In and Out.....	ER-300
Test Point.....	ER-400
Remote Power.....	ER-701
Tubes.....	(3) 12BY7A
Semiconductors.....	(2) 60M (or SL550—if the serial number is preceded by "A")
Fuses, Primary.....	3AG, ½ amp, 125 v, slow blow
B+ Bus.....	3AG, ⅛ amp, 250 v
Stability Per ±10% Line Voltage Variation.....	BA-254, ±2.5 db BA-254R, ±0.25 db
Power Requirements.....	BA-254, 115 v, 60 cps, 25 w BA-254R, 115 v, 60 cps, 35 w
Dimensions.....	BA-254, 5½"H x 6¾"W x 9¼"D BA-254R, 7¼"H x 6¾"W x 9¼"D



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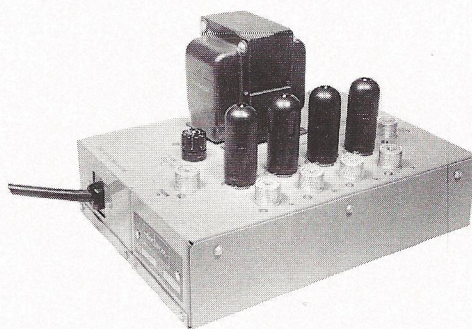
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BRIDGING AMPLIFIER LOW VHF

- ✓ Four Highly Isolated Distribution Line Outputs
- ✓ No Effect on Trunkline Signals
- ✓ Output Signals Compensated for Cable Characteristics
- ✓ Five Channel Bandwidth
- ✓ Unity Gain



MODEL BA-4C *

Bandwidth	54 mc to 88 mc
Gain at Channel 2	3 db
Gain at Channel 6	0 db
Tilt (Factory Aligned)3 db (Ch 2 over Ch 6)
Tilted Flatness	±0.5 db
Throughline Impedance	75 Ω
Distribution Line Output Impedance	75 Ω
Throughline VSWR	1.2:1
Throughline Attenuation	0.5 db
Maximum Input Level	+48 dbmv
Distribution Line Outputs	Four
RF Isolation (Between Outputs) Channel 2	46 db
RF Isolation (Between Outputs) Channel 6	38 db
RF Isolation (output to input) Average	45 db
Fittings	ER-300 (UHF)
Fuse, Primary Slow Blowing	3AG 1/2 amp 125 v
Fuse, B+.	3AG 1/8 amp 250 v
Semiconductors	(2) SL550
Tubes	(4) 6CB6A
Power Requirements	115v 60 cps 25 w
Dimensions	5-1/2" x 6-3/4" x 10"
Weight	6 lb 14 oz

* Add Suffix "L" For 10,000 Hour Type 7732 Tubes

CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPARTMENT NOW!



THE SUPER **JET-FASTEE** BLOCK

FOR SINGLE OR DOUBLE SHIELDED CABLE—MODELS FTB-S & FTB-D

PERMANENTLY WATERPROOF
NEOPRENE GASKET

SURE LOCK
STRAIN RELIEF

SILVER PLATED BRASS
GROUNDING PINS

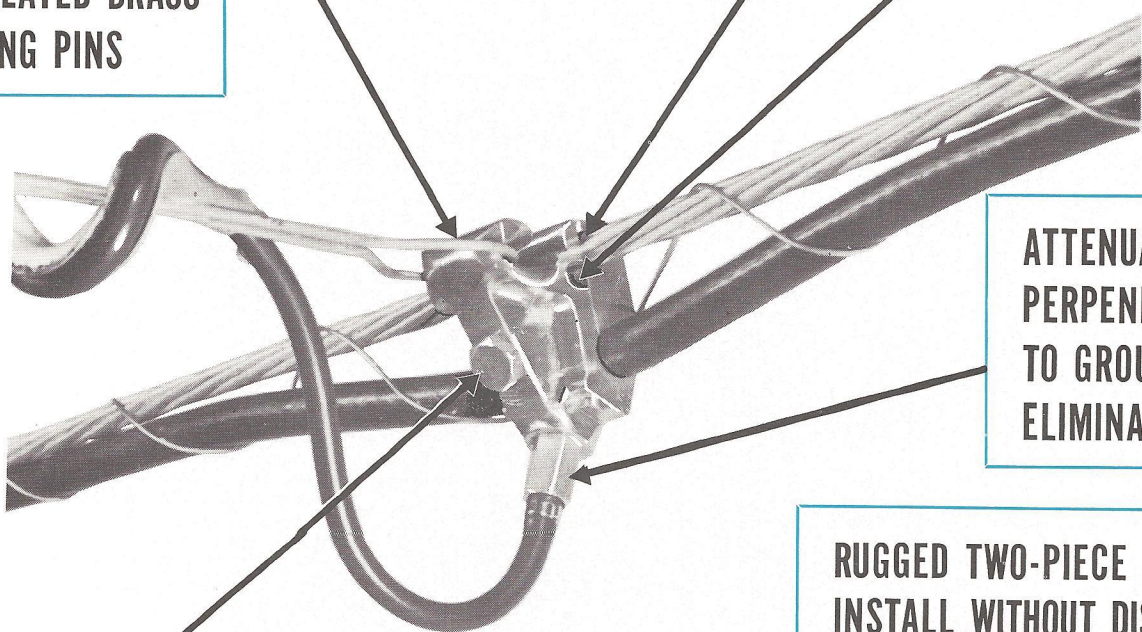
ACCOMMODATES ALL
STANDARD MESSENGERS

ATTENUATOR
PERPENDICULAR
TO GROUND—
ELIMINATES SEEPAGE

RUGGED TWO-PIECE BLOCK
INSTALL WITHOUT DISASSEMBLING

SINGLE BOLT
INSTALLATION

GUARANTEED

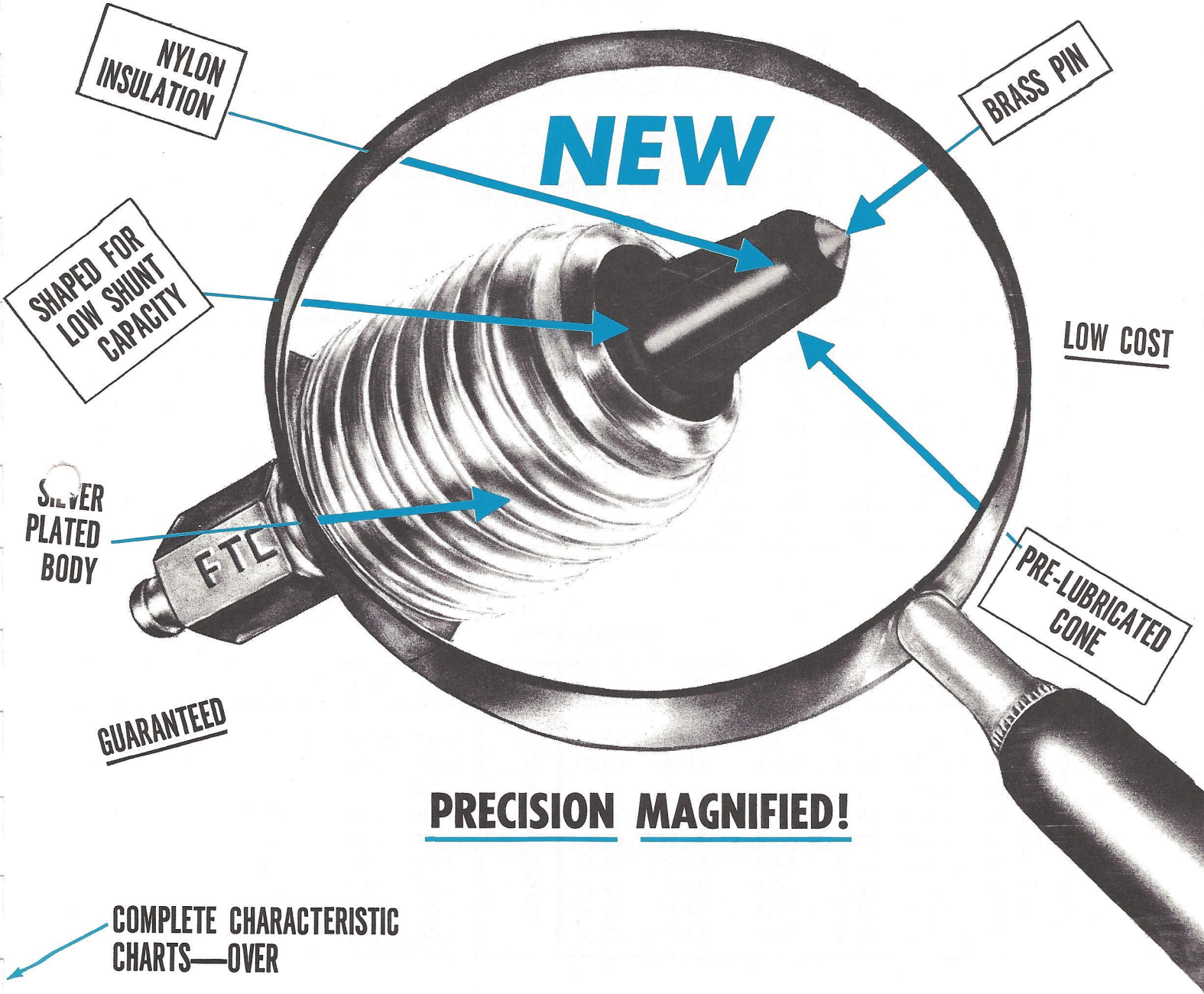


CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPARTMENT NOW!



The BRAND NEW **JET-FASTEE** TAP!

RESISTIVE (FTR) OR CAPACITIVE (FTC)



PRECISION MAGNIFIED!

COMPLETE CHARACTERISTIC
CHARTS—OVER

CONTACT YOUR DISTRIBUTOR OR ENTRON SALES DEPT. NOW!

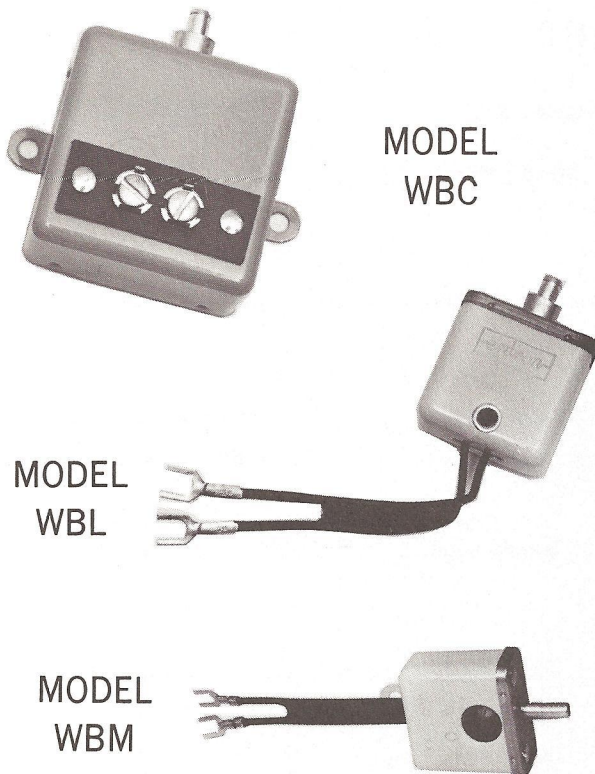


P. O. BOX 287

BLADENSBURG, MARYLAND

AREA CODE 301

277-9585



- ✓ Matches Line to Set Impedance
- ✓ +6 db Voltage Transfer Ratio
- ✓ Improves Weak Input Signal
- ✓ Reduces Inter-Set Interference
- ✓ Complete AC Isolation
- ✓ Flat from 50 mc to 250 mc (± 1 db)
- ✓ Choice of Baseboard or Set Mounting

The matching transformers available in Entron's WB series fulfill the diverse receiver-coupling requirements encountered in Community and Master TV Antenna Systems.

Model WBC is designed for baseboard mounting with a push-on fitting for the coaxial cable input and a terminal strip for the twin lead from the receiver. Model WBC is ideally suited to apartment use or other situations wherein different TV receivers might be connected to a permanent installation at different times.

Models WBL and WBM are designed for mounting on the rear of the receiver. Both are equipped with twin lead and spade lugs for quick attachment.

Model WBL is equipped with a push-on connector with pin vise for simplicity in coaxial cable attachment.

Model WBM is equipped with a push-on connector with screw terminal. The center conductor of the coaxial cable is held visibly under the screw.



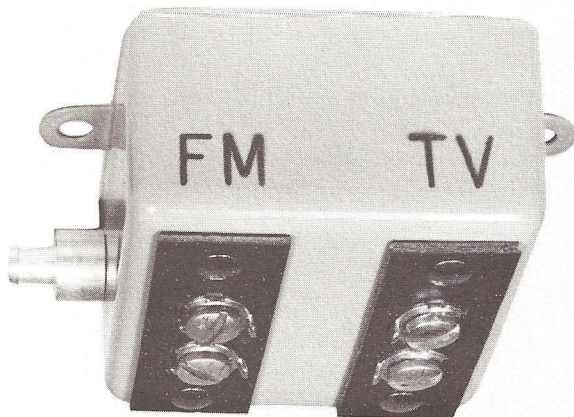
SUBSCRIBER
CONNECTION DEVICE
MODEL WBF

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AREA CODE 301

277-9585



Actual Size
MODEL WBF

- ✓ TV and FM
- ✓ TV Signal Transfer + 6 db
- ✓ FM Signal Attenuated 20 db
- ✓ Push-On Input Fitting
- ✓ Complete AC Isolation
- ✓ Easily Connected
- ✓ Surface Mounting
- ✓ Ivory Baked Enamel Finish

SPECIFICATIONS

Bandwidth.....	50 mc to 250 mc
Frequency Response.....	±1 db
Input Impedance.....	75 Ω
Output Impedance.....	300 Ω
Fitting, In.....	ER-500 (59)
Fittings, Out.....	Terminal strips
Mounting.....	2 Tabs
Mounting Dimensions.....	2-3/8" center to center
Dimensions, Overall.....	1-5/16" x 2-1/16" x 2-15/16"
Weight.....	2 oz





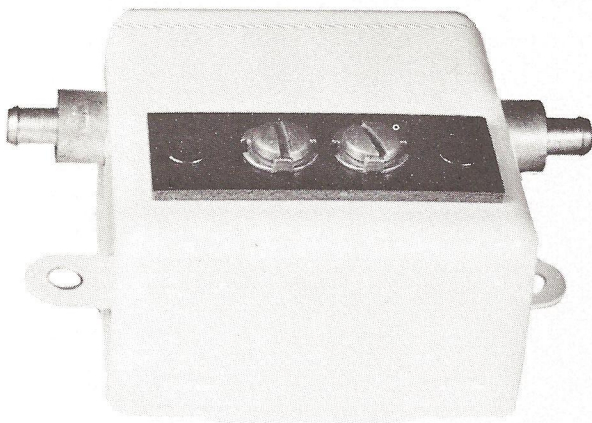
**FM SUBSCRIBER
CONNECTION DEVICE
MODEL OF-320**

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AREA CODE 301

277-9585



MODEL OF-320

- ✓ Thruline TV and FM Signal Attenuated 0.5 db
- ✓ FM Tapoff Attenuated 20 db
- ✓ Push-on Thruline Fittings
- ✓ Complete AC Isolation
- ✓ Easily Connected
- ✓ Surface Mounting
- ✓ Ivory Baked Enamel Finish

SPECIFICATIONS

Tap-off Bandwidth.....	88 mc to 108 mc
Throughline Bandwidth.....	10 mc to 216 mc
Frequency Response.....	±0.5 db
Throughline Impedance.....	75 Ω
Impedance, FM Out.....	300 Ω
FM Output Terminal.....	300 Ω strip
Throughline Fittings.....	ER-500 (59)
Mounting Dimensions.....	2-3/8" center to center
Dimensions, Overall.....	1-5/16" x 2-1/16" x 3"
Weight.....	2 oz



TV MATCHING TRANSFORMERS WB SERIES

SPECIFICATIONS

	Model WBC	Model WBL	Model WBM
Bandwidth.....	50 to 250 mc	50 to 250 mc	50 to 250 mc
Frequency Response.....	± 1 db	± 1 db	± 1 db
Input (75 Ω).....	Push On Connector (with pin vise)	Push On Connector (with pin vise)	Push On Connector (with screw terminal)
Output (300 Ω).....	Terminal Strip	Spade Lugs	Spade Lugs
Mounting.....	Two Tabs	Single Hole	Single Tab
Dimensions.....	1 $\frac{1}{4}$ " x 2 $\frac{3}{4}$ " x 2 $\frac{1}{2}$ "	$\frac{1}{2}$ " x 1" x 1 $\frac{1}{4}$ "	$\frac{1}{2}$ " x 1" x 1 $\frac{1}{4}$ "
Finish.....	Ivory	Ivory	Ivory
Weight.....	2 oz	1 oz	1 oz



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F4A

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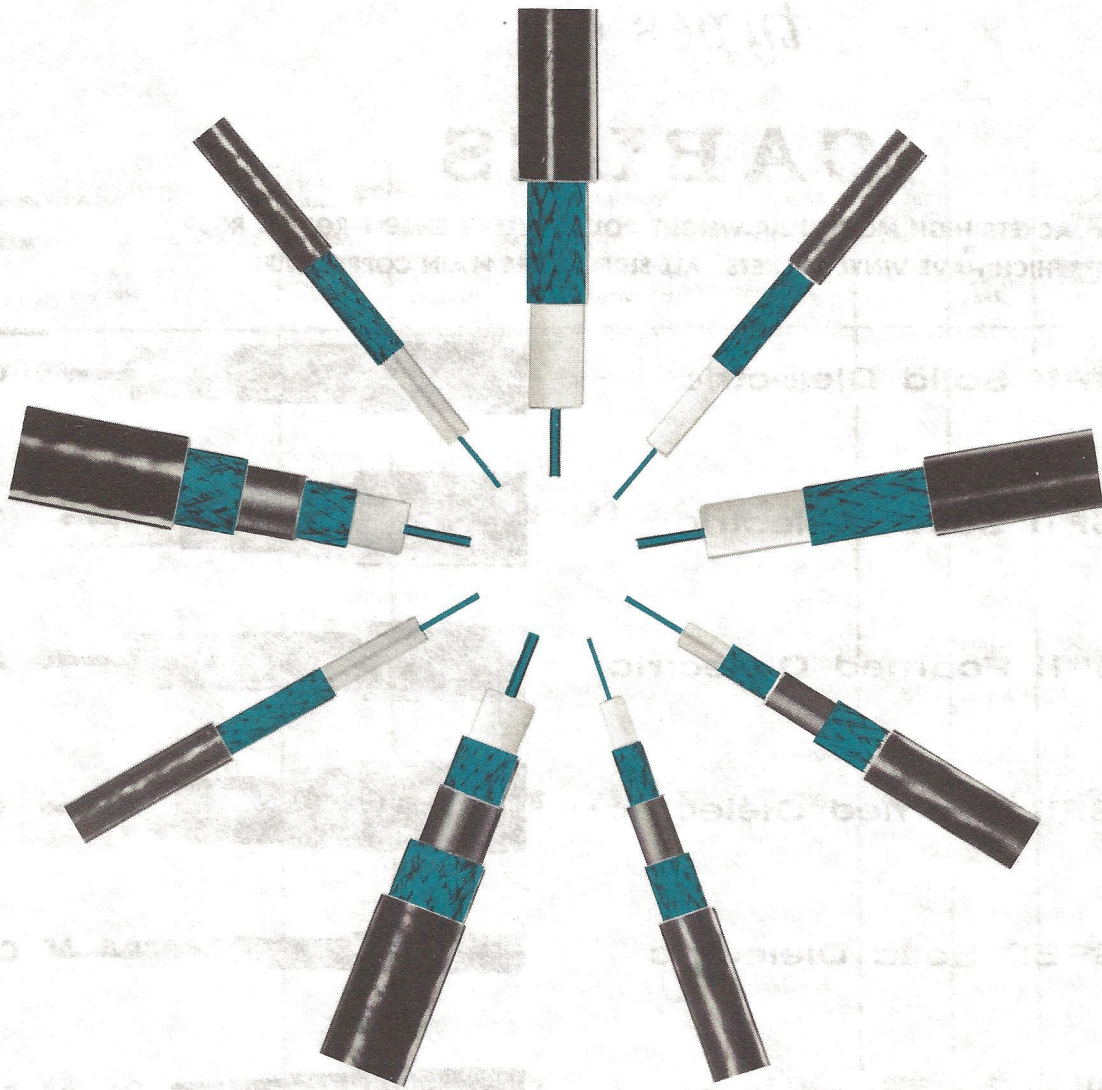
MODEL FTC

FTC	No.	108												
		Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	mc	Ch 7	Ch 8	Ch 9	Ch 10	Ch 11	Ch 12	Ch 13
TAP-OFF LOSS DB	03	42.3	41.7	40.8	39.5	39.0	36.5	34.0	33.8	33.6	33.4	33.3	33.1	33.0
	05	37.5	36.0	35.0	34.0	33.5	31.0	28.0	27.8	27.6	27.4	27.3	27.1	27.0
	1	30.5	29.5	28.5	27.5	27.0	24.5	22.0	21.8	21.6	21.4	21.3	21.1	21.0
	2	27.5	26.5	26.0	25.0	24.5	22.0	19.0	18.7	18.4	18.1	17.9	17.7	17.5
	4	23.5	22.5	22.0	21.0	20.5	19.0	15.5	15.4	15.2	15.0	14.8	14.6	14.5
	6	19.5	18.5	18.0	17.5	17.0	15.5	13.0	12.7	12.5	12.3	12.1	11.8	11.5
	8	15.5	15.0	14.5	13.5	13.0	12.0	9.5	9.2	9.0	8.8	8.6	8.3	8.0
	10	12.0	11.5	11.0	10.0	9.5	8.5	6.5	6.3	6.1	5.9	5.7	5.6	5.5
INSERTION LOSS DB	03	.04	.04	.04	.05	.05	.06	.08	.09	.09	.10	.10	.11	.11
	05	.04	.04	.04	.05	.05	.07	.10	.10	.11	.11	.12	.13	.13
	1	.05	.05	.05	.06	.06	.08	.12	.13	.13	.14	.15	.15	.16
	2	.05	.05	.05	.06	.06	.08	.15	.16	.16	.17	.18	.18	.19
	4	.05	.05	.05	.06	.06	.08	.20	.21	.22	.24	.26	.28	.30
	6	.09	.09	.09	.10	.11	.14	.36	.38	.40	.44	.48	.53	.58
	8	.14	.16	.18	.21	.24	.36	.94	1.04	1.14	1.24	1.34	1.44	1.54
	10	.26	.30	.34	.40	.46	.66	1.64	1.78	1.92	2.06	2.20	2.34	2.48

MODEL FTR

FTR	No.	Ch 2	Ch 6	108 mc	Ch 7	Ch 13	FTR	Ch 2	Ch 6	108 mc	Ch 7	Ch 13
		TAP-OFF LOSS DB						INSERTION LOSS DB				
TAP-OFF LOSS DB	8	8.0	7.6	7.5	7.2	7.0	INSERTION LOSS DB	1.82	1.82	1.82	1.82	1.82
	12	12.0	11.6	11.5	10.8	10.5		1.27	1.30	1.30	1.30	1.30
	16	16.0	15.6	15.5	15.3	15.0		.74	.75	.76	.77	.77
	20	20.1	19.6	19.2	18.0	17.6		.49	.49	.49	.50	.50
	24	24.0	23.5	23.4	23.0	22.5		.25	.25	.28	.30	.30
	28	28.0	27.5	27.4	26.9	26.4		.15	.16	.16	.17	.18
	32	31.5	30.9	30.8	30.5	30.0		.11	.11	.11	.12	.14
	36	35.5	34.8	34.8	34.6	34.0		.07	.07	.07	.08	.08
	40	39.6	38.8	38.3	37.7	37.0		.06	.06	.06	.07	.07

entron equaline



COAXIAL CABLE

for

TV SYSTEMS

by

entron
INCORPORATED

P. O. BOX 287

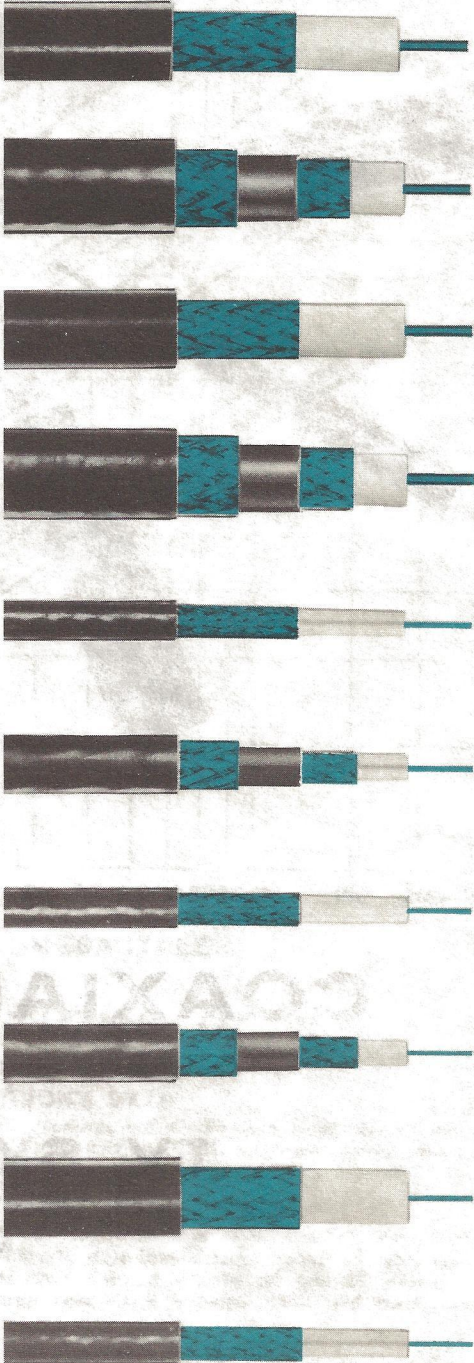







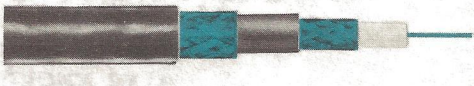


BLADENSBURG, MARYLAND

APPLETON 7-9585

types of

CABLES

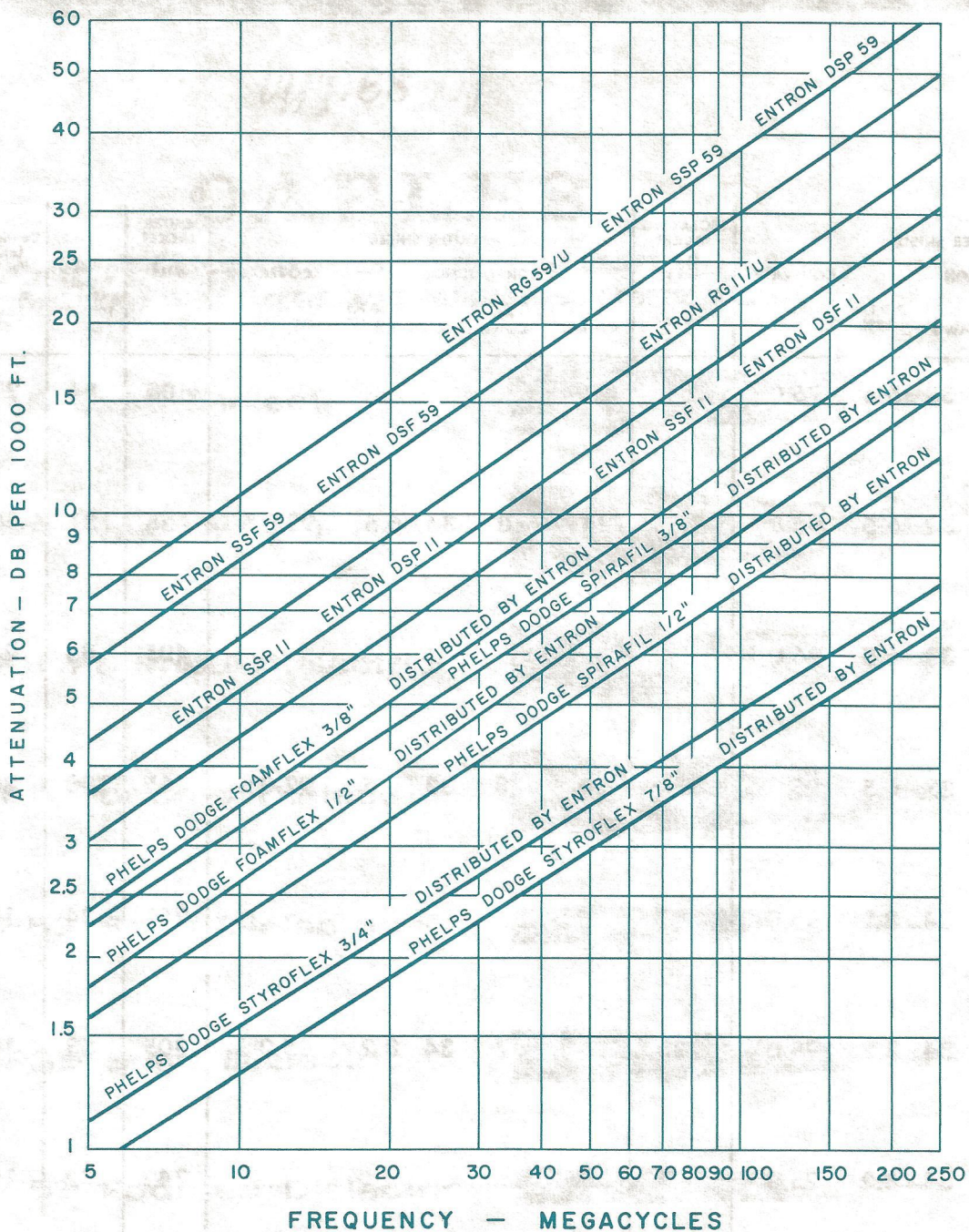
ALL JACKETS HIGH MOLECULAR WEIGHT POLYETHYLENE EXCEPT RG11 & RG59 WHICH HAVE VINYL JACKETS. ALL SHIELDS ARE PLAIN COPPER WIRE.

		CENTER CONDUCTOR		DIELECTRIC MATERIAL
		MATERIAL	AWG	
SSP11 Solid Dielectric		Cu	15	Poly
DSP11 Solid Dielectric		Cu	15	Poly
SSF11 Foamed Dielectric		Cu	15	Poly Cellular
DSF11 Foamed Dielectric		Cu	15	Poly Cellular
SSP59 Solid Dielectric		Cu St	22	Poly
DSP59 Solid Dielectric		Cu St	22	Poly
SSF59 Foamed Dielectric		Cu St	22	Poly Cellular
DSF59 Foamed Dielectric		Cu St	22	Poly Cellular
RG11/U MIL-C-17B SPEC		Cu St	22	Poly
RG59/U MIL-C-17B SPEC		T Cu	7/26	Poly

NOMINAL IMPEDANCE:

RIC O.D. MILS	INNER SHIELD					ISOLATING JACKET O.D. MILS	OUTER SHIELD					OUTER JACKET O.D. MILS	Net Weight Per 1000 ft. LBS.	Continuous Length Per Reel As Standard Put-Up FT.	Shipping Weight Per Reel Per Standard Put-Up LBS.
	CONSTRUCTION		COVERAGE				CONSTRUCTION		COVERAGE						
	Carriers	Wires Per Carrier	AWG	P.P.I. ±10%			Carriers	Wires Per Carrier	AWG	P.P.I. ±10%					
25	24	8	33	6.5	96.0%	---	---	---	---	---	---	405	84	2000	178
285	24	8	33	6.5	96.0%	370	24	8	33	6.5	92.0%	465	131	2000	280
285	24	8	33	6.5	96.0%	---	---	---	---	---	---	405	83	2000	176
25	24	8	33	6.5	96.0%	370	24	8	33	6.5	92.0%	465	130	2000	278
146	16	7	34	8.2	95.0%	---	---	---	---	---	---	242	34	1000	43
146	16	7	34	8.2	95.0%	220	16	7	34	8.2	85.0%	305	53	1000	64
146	16	7	34	8.2	95.0%	---	---	---	---	---	---	242	32	1000	41
146	16	7	34	8.2	95.0%	220	16	7	34	8.2	85.0%	305	50	1000	61
146	16	7	34	8.2	95.0%	---	---	---	---	---	---	242	34	1000	43
25	24	8	33	6.5	96.4%	---	---	---	---	---	---	405	84	2000	178

ATTENUATION CHARACTERISTICS



TERMS AND CONDITIONS OF SALE

DELIVERY:

All prices quoted are f.o.b. destination on orders totalling 200 lbs. or more.

SPECIALY ROUTED SHIPMENTS:

On specially routed shipments (Rail Express, Air Express, Air Freight, etc.) the excess transportation cost due to the special routing will be charged extra.

INVOICE DATE:

All shipments will be invoiced as of date of shipment, and at our prices in effect on the dates on which shipments are made, regardless of date of order.

TERMS:

Net 30 days from date of invoice. 1% cash discount for payment within 10 days from date of invoice on cable only. No cash discount will be allowed on payment made by trade acceptances, notes, securities, postdated checks, etc.

TV CHANNELS TABLE

Channel No.	Freq. Range mc	Channel No.	Freq. Range mc	Channel No.	Freq. Range mc
V H F		U H F		U H F	
2	54-60	28	554-560	56	722-728
3	60-66	29	560-566	57	728-734
4	66-72	30	566-572	58	734-740
5	76-82	31	572-578	59	740-746
6	82-88	32	578-584	60	746-752
FM-98 mc	88-108	33	584-590	61	752-758
7	174-180	34	590-596	62	758-764
8	180-186	35	596-602	63	764-770
9	186-192	36	602-608	64	770-776
10	192-198	37	608-614	65	776-782
11	198-204	38	614-620	66	782-788
12	204-210	39	620-626	67	788-794
13	210-216	40	626-632	68	794-800
U H F		41	632-638	69	800-806
14	470-476	42	638-644	70	806-812
15	476-482	43	644-650	71	812-818
16	482-488	44	650-656	72	818-824
17	488-494	45	656-662	73	824-830
18	494-500	46	662-668	74	830-836
19	500-506	47	668-674	75	836-842
20	506-512	48	674-680	76	842-848
21	512-518	49	680-686	77	848-854
22	518-524	50	686-692	78	854-860
23	524-530	51	692-698	79	860-866
24	530-536	52	698-704	80	866-872
25	536-542	53	704-710	81	872-878
26	542-548	54	710-716	82	878-884
27	548-554	55	716-722	83	884-890

Picture Carrier is lower frequency plus 1.25 mc.
Sound Carrier is higher frequency minus 0.25 mc.

DBMV TO μ V CONVERSION TABLE

(REFERENCE LEVEL: 0 dbmv = 1000 μ v = 1mv)

dbmv	μ V	dbmv	μ V	dbmv	μ V
-40	10.00	0	1,000	41	112,200
-39	11.22	1	1,122	42	125,900
-38	12.59	2	1,259	43	141,300
-37	14.13	3	1,413	44	158,500
-36	15.85	4	1,585	45	177,800
-35	17.78	5	1,778	46	199,500
-34	19.95	6	1,995	47	223,900
-33	22.39	7	2,239	48	251,200
-32	25.12	8	2,512	49	281,800
-31	28.18	9	2,818	50	316,200
-30	31.62	10	3,162	51	354,800
-29	35.48	11	3,548	52	398,100
-28	39.81	12	3,981	53	446,700
-27	44.67	13	4,467	54	501,200
-26	50.12	14	5,012	55	562,300
-25	56.23	15	5,623	56	631,000
-24	63.10	16	6,310	57	707,900
-23	70.79	17	7,079	58	794,300
-22	79.43	18	7,943	59	891,300
-21	89.13	19	8,913	60	1,000,000
-20	100.0	20	10,000	61	1,122,000
-19	112.2	21	11,220	62	1,259,000
-18	125.9	22	12,590	63	1,413,000
-17	141.3	23	14,130	64	1,585,000
-16	158.5	24	15,850	65	1,778,000
-15	177.8	25	17,780	66	1,995,000
-14	199.5	26	19,950	67	2,239,000
-13	223.9	27	22,390	68	2,512,000
-12	251.2	28	25,120	69	2,818,000
-11	281.8	29	28,180	70	3,162,000
-10	316.2	30	31,620	71	3,548,000
-9	354.8	31	35,480	72	3,981,000
-8	398.1	32	39,810	73	4,467,000
-7	446.7	33	44,670	74	5,012,000
-6	501.2	34	50,120	75	5,623,000
-5	562.3	35	56,230	76	6,310,000
-4	631.0	36	63,100	77	7,079,000
-3	707.9	37	70,790	78	7,943,000
-2	794.3	38	79,430	79	8,913,000
-1	891.3	39	89,130	80	10,000,000
0	1,000.0	40	100,000		