



5T650BODE 650 MHz Trunk Amplifier

**2 Year
Warranty**



Drop In replacement for Magnavox/Philips 4/5/6/8T

When Operated with 4Cable's CCD it will AGC from a Digital or an Analog Channel

Operational Gain 35 dB - Low Distortion

100% New Board - Low Noise Figure 6 dB

40% Less current than a Feedforward

Interstage EQ's and Pads for maximum flexibility

GaAs FET Technology

BODE Gain control for single pilot operation

Specifications in Housing

Parameter	Test Conditions		Units	Notes	Forward
Technology	-		-	-	GaAs FET PD
Bandwidth	-		MHz	-	54-650
Response Flatness	-		dB	-	+/-0.25
Minimum Full Gain	-		dB	1	38
Operational Gain	-		dB	-	35
Slope	Cable Equivalent		dB	-	10
Input Return Loss	Freq	54-650 MHz	dB	2	16
Output Return Loss	Freq	54-650 MHz	dB	-	16
DC Current Draw (max)	-		mA	-	680
Noise Figure	-		dB	-	6

Distortion Measurements @ rated loading

Reference Frequencies	-	MHz	-	55/550/650
Output Levels	-	dBmV	-	32/38/44
Channel Loading	-	NTSC	3	77 + digital above 550 MHz
Composite Triple Beat	-	dBc	-	79
Composite Second Order	-	dBc	-	76
Carrier to Noise	-	dB	-	65
Cross Modulation	-	dBc	-	85

Notes:

1. Factory alignment with 10dB cable equivalent and 28 dB of flat gain.
2. All return loss measurements made with 0 dB pads and a #18 gauge wire jumpers in place of the equalizers.
3. Distortion measurements made with 77 analog channels and digital channels running 6 dB down from an analog equivalent.
4. A 5 db Interstage EQ is recommended for optimum field operation
5. 750 MHz version available on special order 1 dB higher gain and distortions will be 1 dB lower

Available now from stock to 4 weeks

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