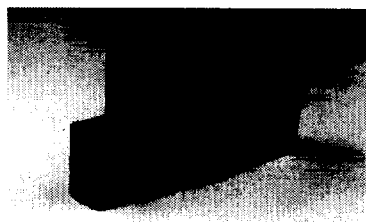


PAW783 40-750MHz

13.5dB. CATV Ultra-linear Amplifier

PHOENIX
MICROWAVE CORP.



Features:

- Ultra High Linearity
- Low Noise Figure
- Rugged Construction
- Operation over wide voltage range
- Usable for 50 ohm operation

Specifications @ Tcase = 30°C (Referenced to 75 ohms)

Parameter	Typical Conditions	Min Value	Max. Value	Units
Frequency Range		40	750	MHz.
Power Gain	f = 50MHz.	13.5	14.5	dB.
Cable equivalent slope	f = 40MHz. TO 750MHz.	0	1.5	dB.
Gain Flatness (peak to valley)	f = 40MHz. TO 750MHz.		±0.2	dB.
Input/Output Return Loss	f = 40 To 160 MHz.	16		dB.
Input/Output Return Loss	f = 160 To 750 MHz.	16		dB.
Composite Triple Beat (CTB)	77 channels flat, Vo=44dBmV. Measured @ 547.25 MHz.		-59	dB.
Cross Modulation (XMOD)	77 channels flat, Vo=44dBmV. Measured @ 55.25 MHz.		-61	dB.
Composite 2nd Order (CSO)	77 channels flat, Vo=44dBmV. Measured @ 547.25 MHz..		-59	dB.
IP ₃ /IP ₂	2 tone	42/60		dBm.
Noise Figure (NF)	@ f = 750 MHz.		9.0	dB.
Total Current(I TOT)	@ Voltage of +24v		240	mA.

Maximum Ratings

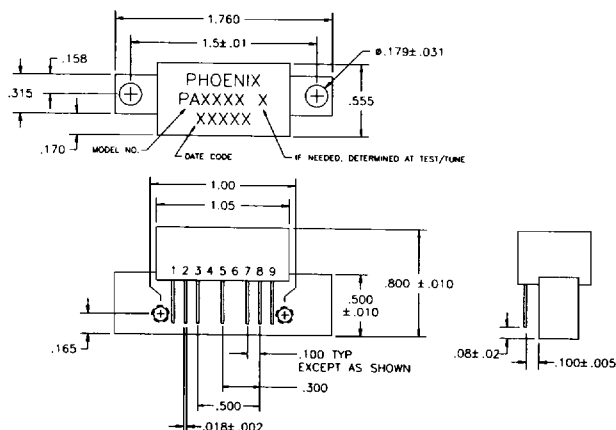
Storage Temperature . -40 to +100°C

DC Operating Voltage . . . +30.0 v.

Operating Base Temp. . . . +100°C

RF Input Voltage . . 60dBmV max.

Outline Drawing



Pin Configuration

PIN #	Description
1	Input
2,3,7,8	Ground
5	+V.
9	Output
4,6	not used