

PAW887B

40-860 MHz.

28 dB.

CATV Ultra-linear Amplifier



M/A-COM



Features: (typical values)

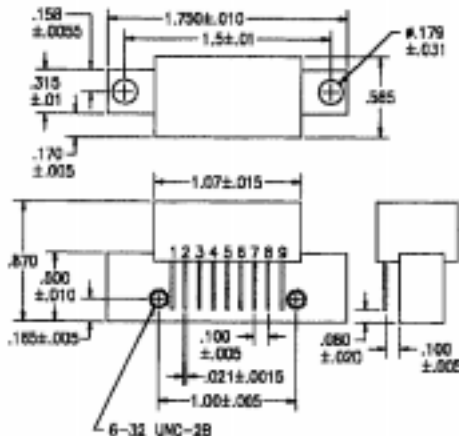
- Ultra High Linearity
- Low Noise Figure
- Rugged Construction
- Operation over a wide voltage range
- Usable for 50 ohm operation

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

Parameter	Typical Conditions	Min. Value	Max. Value	Units
Frequency Range		40	860	MHz.
Power Gain*	f=50 MHz.	28	30	dB.
Cable Equivalent slope	f=40 MHz. to 860 MHz.	0	3.0	dB.
Gain Flatness (peak to valley)	f=40 to 860 MHz.		+/- 1.5	dB.
Input/Output Return Loss	f=40 to 300 MHz.	17		dB.
Input/Output Return Loss	f=300 to 860 MHz.	12		dB.
Composite Triple Beat (CTB)	110 channels flat Vo=40dBmV. measured @ channel 78		-57	dB.
Cross Modulation (XMOD)	110 channels flat Vo=40dBmV. measured @ channel 2		-57	dB.
Composite 2nd. Order (CSO)	110 channels flat Vo=40dBmV. measured @ channel 78		-55	dB.
IP3 / IP2	2 tone	32/52		dBm.
Noise Figure (NF)	@ f= 750 MHz.		8.5	dB.
Total Current (I _{TOT})	@ Voltage of +24v.		340	dB.

* Note: +/- 2.0 gain from 5 to 40 Mhz

Outline Drawings



Maximum Ratings

- Storage Temperature -40°C to +100°C
- DC Voltage +28 volts
- RF Input voltage 40dBmV.
- Operating Base Temperature +100°C

Pin Configuration

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