

# PAW788

# 40-750 MHz.



## 34 dB.

## CATV Ultra-linear Amplifier

### Features: (typical values)

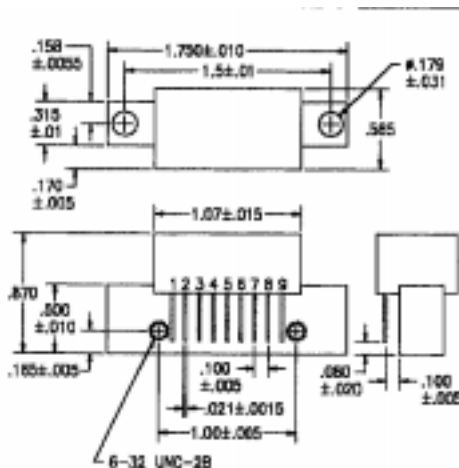
- Ultra High Linearity
- Low Noise Figure
- Rugged Construction
- Operation over a wide voltage range
- Usable for 50 ohm operation
- Unconditional Stability



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

Parameter	Typical Conditions	Min. Value	Max. Value	Units
Frequency Range		40	750	MHz.
Power Gain	f=50 MHz.	33.5	35.5	dB.
Cable Equivalent slope	f=40 MHz. to 750 MHz.	0	3.0	dB.
Gain Flatness (peak to valley)	f=40 to 750 MHz.		+/- 1.2	dB.
Input/Output Return Loss	f=40 to 320 MHz.	16		dB.
Input/Output Return Loss	f=320 to 750 MHz.	13		dB.
Composite Triple Beat (CTB)	110 channels flat Vo=40dBmV. measured @ channel 78		-60	dB.
Cross Modulation (XMOD)	110 channels flat Vo=40dBmV. measured @ channel 2		-62	dB.
Composite 2nd. Order (CSO)	110 channels flat Vo=40dBmV. measured @ channel 78		-58	dB.
IP3 / IP2	2 tone	34/56		dBm.
Noise Figure (NF)	@ f= 750 MHz.		8.0	dB.
Total Current (I <sub>TOT</sub> )	@ Voltage of +24v.		340	dB.

### 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