

2 – 18 GHz 70dB Gain Amplifier

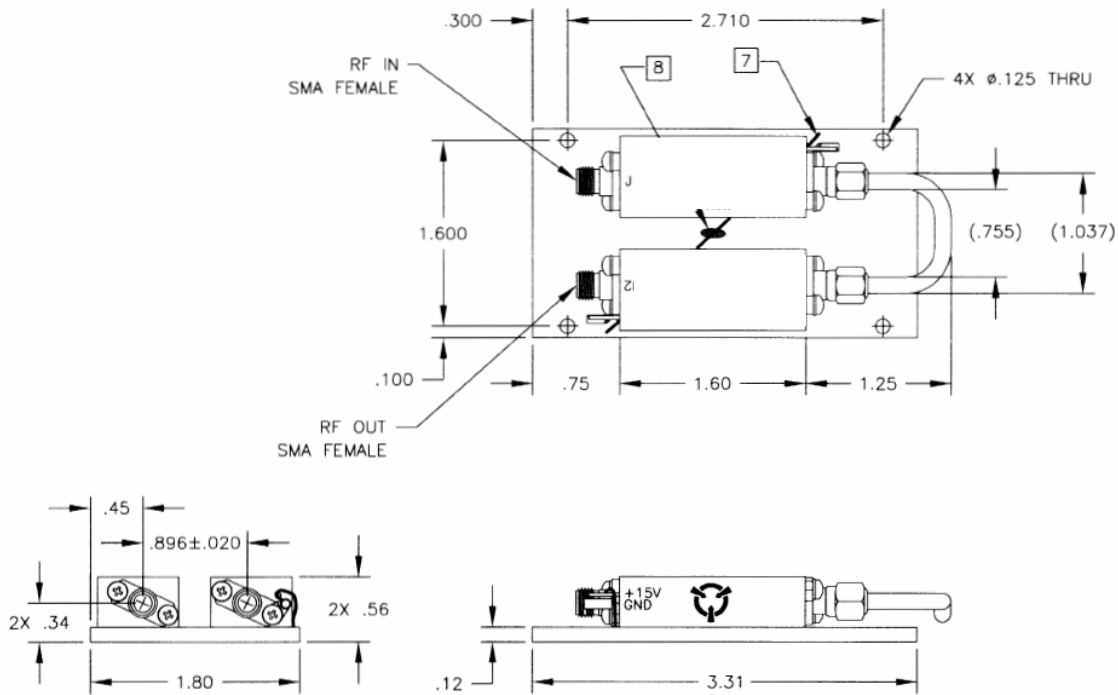
FEATURES

- P_{sat} dB: 17dBm(min.)
- NF : 7.5dB(max)
- Gain : 70dB(min.)
- Bias Condition: **600**mA(max.) @ 15V

ELECTRICAL SPECIFICATIONS at 25 °C

Symbol	Description	Min.	Typ.	Max.	Unit
FREQ	Frequency Range	2		18	GHz
Gain	Gain	70		78	dB
GOF	Small Signal Gain Flatness (PTP)			±1.5	dB
NF	Noise Figure (over temp. & freq.)			7.5	dB
P_{sat}	Saturation Output Power	17		21	dBm
Pin	Power Input no Damage	-43		-7	dBm
VSWR, IN	Input VSWR			2.0:1	-
VSWR, OUT	Output VSWR			2.0:1	-
Vdc	DC Supply Voltage		15		Volt
Idc	Current Supply at Pin 17dBm			600	mA
OTR	Operating Temperature Range	0		50	°C

Case : As shown attached..



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MARKING AS SHOWN SHALL BE PERMANENT AND LEGIBLE PER MIL-STD-130 USING BLACK EPOXY BASE INK.
2. CASE MATERIAL: ALUMINUM ALLOY.
3. CASE FINISH: ALL SURFACES EXCEPT BOTTOM SURFACE, CONNECTOR THREADS AND DC/GND TERMINAL PINS ARE PAINTED WITH EPOXY PAINT PER MIL-C-22750. COLOR IS CELERITEK STANDARD COLOR CHIP 36424 PER FED-STD-595.
4. BASE PLATE MATERIAL: ALUMINUM ALLOY.
5. BASE PLATE FINISH: CHEM FILM PER MIL-C-5541.
6. BASE PLATE IS ATTACHED TO CASES USING (4) #2-56 X .188 LG. SST PANHEAD SCREWS. AND (4) #2 SPLIT LOCK WASHERS.
7. INSTALL D.C. INTERCONNECT WIRE (392-004448-226, RED) AS SHOWN. SOLDER TO DC PINS IAW 950521.
8. STAKE WITH NONCONDUCTIVE EPOXY (393-004064-001) AND CURE @120°C FOR 1 HOUR.