

50Ω (match on input & output) Broadband 0.2 -- 22 GHz**Features:**

- * Frequency Range: 0.2 GHz to 22GHz;
- * Noise Figure: typical 3dB @ 10-18 GHz
- * Gain: typical 12 dB
- * Output P1dB: +28 dBm typ.
- * Output IP3: +40 dBm typ.
- * DC Voltage: +10V
- * Operating Current: 350mA
- * Stainless Steel SMA Female Connector
- * High Quality Rogers RO4350 RF PCB
(very low loss and high thermal performance)
- * ROHS Compliant

Applications:

- * Test Instrumentation
- * Wideband A/D System
- * General Purpose Wireless
- * Radar & VSAT
- * SDR & Ham Radio

General Description:

PA0P2G22G is a broadband, GaAs MIMC power amplifier with 12 dB typical gain from 0.2 to 22 GHz in a small 15/16" x 1-1/8" x 0.59" shielded RF enclosure (PN: 6UED2W6S1A2) with integrated heatsink. This self-biased power amplifier provides 12 dB of gain, +40 dBm output IP3 and +28 dBm of output power at 1 dB gain compression while requiring only 350mA from +10V supply.

**Electrical Specifications:**

Item	Parameter	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Units
1	Operational Freq.	0.2 – 10			10-18			18-22			GHz
2	Gain	11	13		8	10	12	9	11		dB
3	Input Return Loss		15			15			18		dB
4	Output Return Loss		14			16			18		dB
5	Saturated Output Power		29			29			29		
6	Noise Figure		6			3			3.5		dB
7	Output P1dB	25	27		26	28		25	28		dBm
8	Output IP3		38.5			49			40		dBm
9	Current, I _{DD}		350	430		350	430		350	430	mA

Test Conditions: V_{DD}=+10V, Temp = +25 °C, I_{DD}=350mA, 50Ω system.

Absolute Maximum Ratings

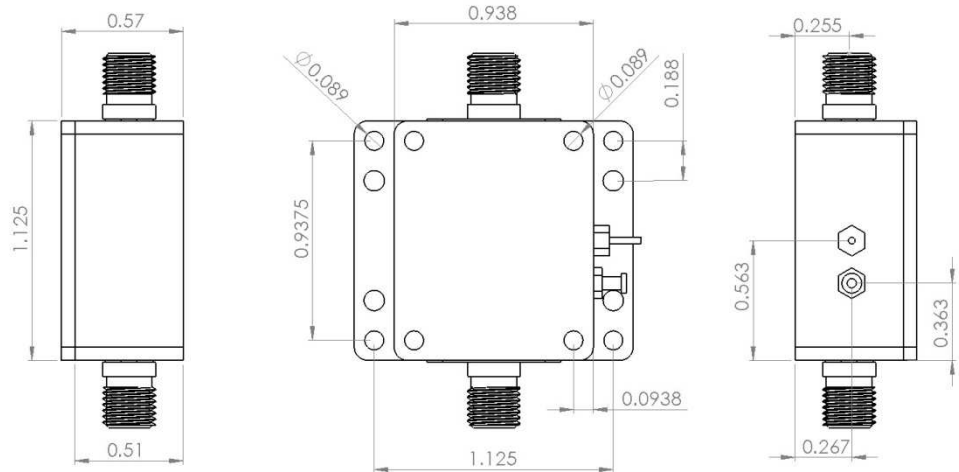
Item	Parameter	Rating	UNITS
1	Max Device Voltage	+12	V
2	Max RF input Power	+25	dBm
3	Operating Temperature	-40 to +85	°C
4	Max Storage Temperature	-65 to +150	°C



**Coaxial
Broadband Power Amplifier (PA)**

PA0P2G22G

Outline Drawing (inch)
(Without Heatsink)



S-Parameters

