

50Ω (match on input &amp; output) Broadband 5G to 18G Hz

Case PN: 6DD4W6H41SA20

**Features:**

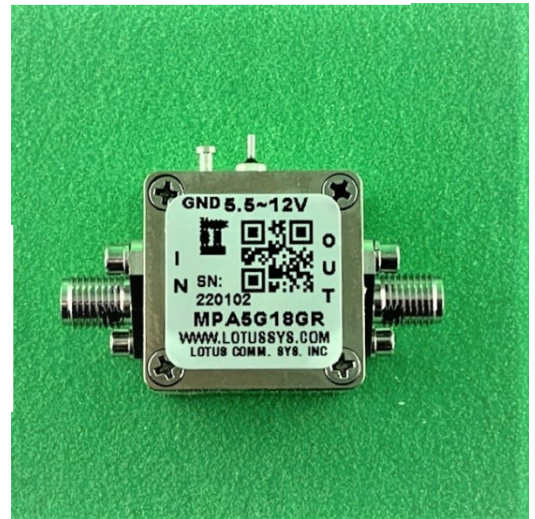
- \* Frequency Range: 5GHz to 18GHz;
- \* Noise Figure: typical 7.0dB @ 10 GHz
- \* Gain: typical 17 dB @ 10 GHz
- \* Output P1dB: 19.5 dBm typ.
- \* Output IP3: 28 dBm typ.
- \* DC Voltage: +5.5~12V
- \* Operating Current: 130mA
- \* Stainless Steel SMA Female Connector
- \* EMI Shield & Waterproof Option Available (\$90 Extra)
- \* ROHS Compliant

**Applications:**

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

**General Description:**

MPA5G18GR is a broadband, median power amplifier with 17 dB typical gain from 5 to 18 GHz in a small 15/16"x15/16"x0.49" shielded RF enclosure. Third order linearity (OIP3) is typically 28 dBm. RF Input/output are DC blocked.

**Electrical Specifications:**

Item	Parameter	Min	Typ	Max	Min	Typ	Max	Units
1	Operational Freq.		5 - 14			15 - 18		GHz
2	Gain	15	17		12.5	15		dB
3	Input Return Loss		13			13		dB
4	Output Return Loss		12			8		dB
5	Noise Figure		7			7		dB
6	Output P1dB	16.5	19.5		16	19		dBm
7	Output IP3		28			25		dBm
8	Current, I <sub>DD</sub>		130	150		130	150	mA

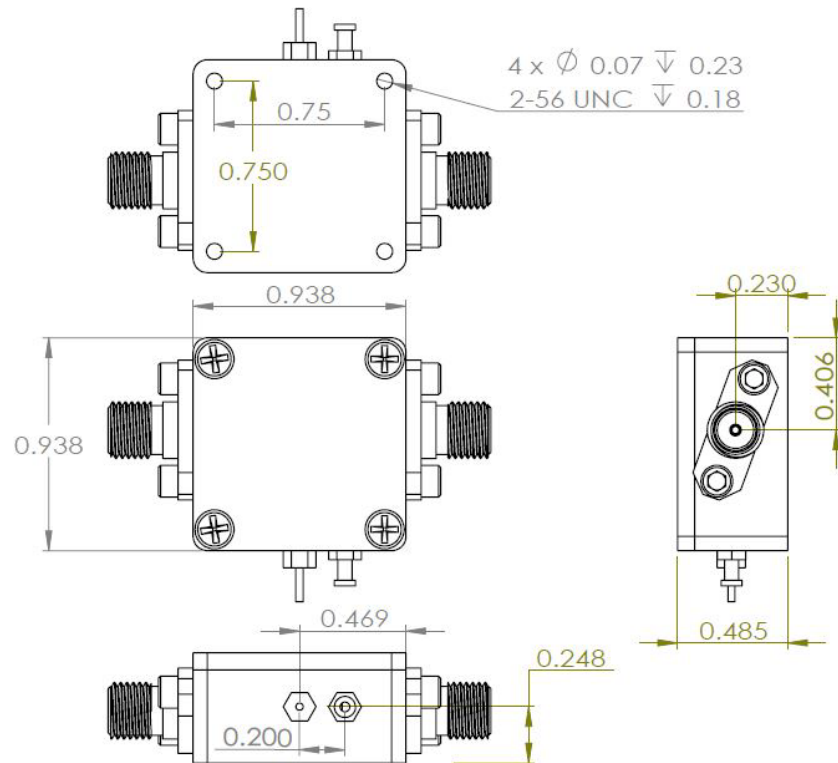
Test Conditions: V<sub>DD</sub>=+5V, Temp = +25 °C, 50Ω system.

**Absolute Maximum Ratings**

Item	Parameter	Rating	UNITS
1	Max Device Voltage	+18	V
2	Max RF input Power	+10	dBm
3	Operating Temperature	-40 to +85	°C
4	Max Storage Temperature	-65 to +150	°C



Outline Drawing (inch)



S-Parameters

