

**Model:TLPA2G18G-50-47-BC**
**Solid State High Power Amplifier Systems  
 2-18GHz,Gain:50dB,Psat:47dBm,+28V DC**
**Feature:**

- Wide Band: 2-18GHz
- Gain: 50dB Min
- Psat Output Power:47dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output


**Electrical Specifications:**

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	2-18			GHz
Gain	GP	50			dB
Gain flatness	$\Delta$ GL		$\pm 4.5$	$\pm 5$	dB
Output Psat	Psat	47			dBm
Spurious	Spur			-60	dBc
Harmonics	HAM			-10	dBc
Input VSWR	VSWRin			2.0	:1
DC Voltage	Vdc	+28			V DC
Power consumtpion	Pdiss	1400@Max			Watts
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input/Output Connector	SMA Female/N Female	
Size	340*333*98.5	mm
Weight	10	Kg

**Absolute Maximum Ratings:**

Parameter	Value
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



**Environmental Conditions:**

Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+50	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

Part Number	Description	Revision
TLPA2G18G-50-47-BC	Solid State High Power Amplifier Systems 2-18GHz,Gain:50dB,Psat:47dBm,+28V DC,Built in Fan Cooling	Rev.1.0