

Broadband Amplifiers

0.1 ... 18 GHz



Application

- Test and measurement equipment
- Airborne, naval and ground applications

Benefits

- Easy integration through mounting flanges
- Small size
- Unconditional stable
- Customised bandwidths

General specifications

Supply voltage (VDC)	15.0 ± 2.0
Power consumption (W)	5 ... 11
Cooling	convection
Sealing	hermetic
Grounding	through housing
MTBF (hours)	10'000

RF specification

Frequency band (GHz)	0.5 ... 18
Impedance (Ohm)	50
Return loss (dB)	10
P1dB (dBm)	16 ... 23
Psat (dBm)	17 ... 24
Gain (dB)	25 ... 58
Gain ripple (dB)	±1.5 ... ±2.0
Max. input power (dBm)	-20 ... +10
Harmonics at P1dB (dBc)	40
Spurious emissions (dBc)	70
OIP2 (dBm)	31 ... 38
OIP3 (dBm)	26 ... 33
Noise figure (dB)	5 ... 7

Mechanical specification

Housing	Aluminium
Dimensions w/o connectors (mm)	Length: 45 ... 80
	Width: 20
	Height: 12
Mounting	4 holes on flanges

Interfaces

RF connectors	SMA male or female
DC connector	Pins

Compliance

Temperature range (°C)	-55 ... +125
Shock and vibration	MIL-STD-810E
Climate	MIL-STD-810E
EMC	MIL-STD-461C
	RTCA DO160C



Solid State Amplifiers