



1W Solid State Power and GPS Power Amplifiers

The content of this specification may change without notification 8/01/09



Amplifiers

Coaxial

1W Solid State Power Amplifiers 8 to 18GHz

P/N	Freq. Range (GHz)	Gain (dB) Typ	Noise Figure (dB) Max	Pout@1dB (dBm) Min	Flatness (dB) Max	IP3 (dBm) Typ	Power Supply +12V (mA)	Operating Temperature (°C)	Storage Temperature (°C)
PA8018N4020	8 - 18	40	-	30	± 2.0	40	2000	-55 - +85	-60 - +90
PA8012N4030	8 - 12	40	-	30	± 1.5	40	2000	-55 - +85	-60 - +90
PA8018N4030	12 - 18	40	-	30	± 1.5	40	2000	-55 - +85	-60 - +90

GPS Power Amplifiers 1600 to 1630MHz

	PA1616-45	PA1616-10A	PA1616-10B
Freq. Range (MHz)	1600 - 1630	1600 - 1630	1600 - 1630
Psat (pulse power, 50% space) (W)	35	10	10
Pout@1dB (W)	20	9	9
Gain (dB)	45	40	30
Flatness Against Frequency (dB)	± 1	± 1	± 1
Flatness Against Temperature (dB)	± 1	± 1	± 1
VSWR Max	2	2	2
Harmonics (dBc) Max	-30	-30	-30
Spurious (dBc)	-70	-70	-70
Voltage of Power Supply (VDC)	27	27	27
Current of Power Supply (A) Max	3 (0.8)	1.3 (0.22)	0.8 (0.25)
Efficiency (static current)	35%	30%	45%
Operating Temperature (°C)	-40 - +55	-20 - +70	-20 - +70
Storage Temperature (°C)	-55 - +70	-55 - +70	-55 - +70
Humidity (%)	95	95	95
Dimensions (mm)	91 x 56.5 x 14.6	60 x 30 x 10.3	32.7 x 29.1 x 10
Weight (g)	140	40	20
RF Connector	SMA	SMB, SMA	Pin, SMA