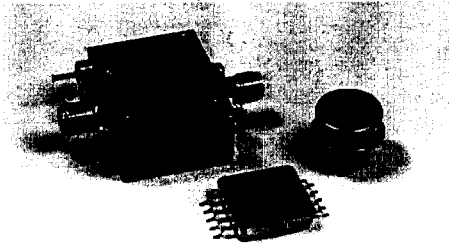


PA1025/30 Series 5-550 MHz. Push Pull Amplifier



See Short Form Chart and Mechanical Section for available outline drawings.

Features: (typical values)

- Low Distortion
- High Second Order IP2 +70.0 dBm.
- High Third Order IP3 +38.0 dBm.
- Also Available for -15V Operation (PA1030) and/or 75Ω Impedance
- Hermetic Package (*Surface Mount available*)

Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency	2/600	5	550	MHz.
Gain	23	21.5	24.5	dB.
Gain Flatness	±0.3		±0.8	dB.
Gain Var. over temp.	0.7			ΔdB.
Pout @ 1dB. comp.	+ 24	+ 22		dBm.
Noise Figure	3.5		4.5	dB.
Reverse Isolation	29			dB.
IP ₃ /IP ₂ (two-tone) *	38/70	33/60		dBm.
HIP2 (2nd harm.)	75	60		dBm.
VSWR In/Out	1.5:1		2.0:1	
Supply Req'd	+15/140		+15/165	v/mA.

Min. and max. values are from -55°C to +85°C
*IP₃ and IP₂ are in band output intercept points

Maximum Ratings

Storage temperature -62°C to +125°C
DC voltage +17 volts
RF input power +15.0 dBm.
Case Temperature +95°C

Typical Performance Curves

■ -55°C ◆ +25°C ▲ +85°C

