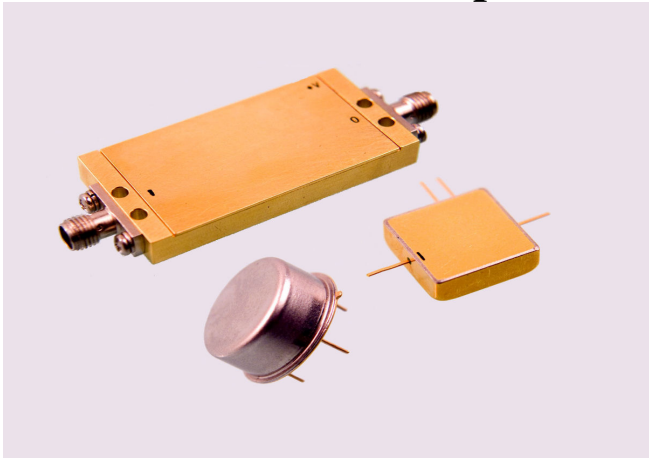


ASC100 1200-1400 MHz. Ultra- Linear Amplifier



Parts offered in any standard form, fit, function TO-8, flat pack or connectorized housing. Can be modified for custom package upon request

Features: (typical values)

- Very low NF 0.9dB
- High Gain 30.0 dB
- High Reverse Isolation 45 dB
- Low VSWR 1.3:1
- TO-8 and Hermetic Package (Surface Mount) available

Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		1200	1400	MHz.
Gain	30	27.0		dB.
Gain Flatness	±0.2		±0.8	dB.
Gain Var. over temp.	0.7			ΔdB.
Pout @ 1dB. Comp.	+19	+17		dBm.
Noise Figure	0.9		1.4	dB.
Reverse Isolation	45.0			dB.
IP ₃ /IP ₂ (two-tone)	33/40	28/38		dBm.
HIP ₂ (2 nd harm.)	45			dBm.
VSWR In/Out	1.3:1		1.7:1	
Supply Req'd	+15/80		+15/110	v/mA.

Min. and max. values are from -55°C to +85°C

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

