



HA1003

General Description

The HA1003 is a narrow band super low noise amplifier in the frequency range from 1.5GHz to 1.6GHz. Biasing is done through the RF output connector.

The device operates from -40°C to $+85^{\circ}\text{C}$.

Electrical Performance

Data @25 °C

Parameter	Min	Typ	Max	Units
Frequency Range	1.5		1.6	GHz
Gain	32	37	40	dB
Gain Flatness		± 1		dB
Group Delay, per 36 MHz			Linear 0.05 Parabolic 0.005 Ripple 1	ns/MHz ns/MHz ns p-p
Noise Figure		0.6	0.8	dB
Power Output@P _{1dB}		+4		dBm
Output IP3		+15		dBm
Input Power			+10	dBm
Input Return Loss	10	15		dB
Output Return Loss	10	15		dB
Operating Temp Range	-40		+85	$^{\circ}\text{C}$
DC Voltage	10	12	15	V
DC Current		30		mA
Connector Input	N-male			
Connector Output	N-female			
Package	Aluminum, soldered, waterproof			
Weight	150			g
Size	64.2 x 32 x 20 w/o Connector			mm

