

Features

- Frequency Range: 20~300MHz
- High Gain: 25dB(Typ)
- Low Noise: 1.0dB(Typ)
- Active Bias Design Supply Temperature Compensation
- Standard Hermetic Package
- Operating Temperature Range: -55°C~+85°C

Electrical (50 Ω, V_{CC}=+5V, T_A -55°C~+85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f _L ~f _H	MHz	20~300	20~350
Gain	G _p	dB	≥24.0	25.0
Gain Flatness	ΔG _p	dB	≤±0.5	±0.3
Noise Figure	F _n	dB	≤1.5 Δ	1.0
Input VSWR	VSWR _i	--	≤2.0:1 Δ	1.5:1
Output VSWR	VSWR _o	--	≤2.0:1 Δ	1.4:1
For 1dB Compression	P ₋₁	dBm	≥11.0* Δ	12.0
Supply Current	I _{CC}	mA	--	18

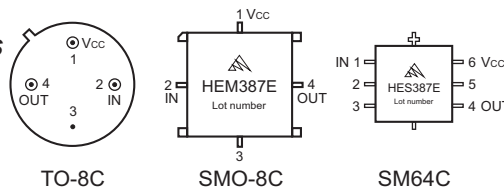
Note: "*" f=200 MHz. "Δ" T_A=24±1°C.

Maximum Ratings

Power supply: +7V_{DC}

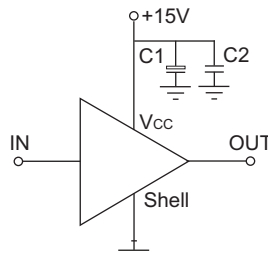
RF input: +7dBm

Storage Temp: +125°C



Application Notes

1. Interface schematic shown as right, C₁=3.3~22 μF, C₂=3300~6800pF.
2. Connectorized package (SMA-1) available.
3. See assembly section for outline and mounting information.



Typical Curves

