



Features

- Frequency Range: 100~600MHz
- Low Noise: 1.7dB(Typ)
- Standard Hermetic Package
- Operating Temperature Range: -55°C~+85°C

Electrical (50 Ω, V_{CC}=+15V, T_A=-55°C~+85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f _L ~f _H	MHz	100~600	20~1000
Gain	G _p	dB	≥10	11
Gain Flatness	ΔG _p	dB	≤1	0.5
Noise Figure 1	F _n	dB	≤2.5 Δ	2.3
Noise Figure 2	F _n	dB	≤2.0 Δ	1.7
Input VSWR	VSWR _i	--	≤2.0:1 Δ	1.5:1
Output VSWR	VSWR _o	--	≤2.0:1 Δ	1.5:1
For 1dB Compression	P ₋₁ *	dBm	≥24.0*Δ	24.5
Supply Current	I _{CC}	mA	≤130	100

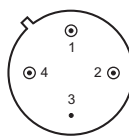
Note: “*” f=500 MHz. “Δ” T_A=24±1°C. F_n(20MHz):6.5dB.
Noise figure 1:100~200MHz. 2:200~600MHz.

Maximum Ratings

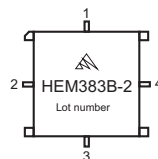
Power supply: +16V_{DC}

RF input: +18dBm

Storage Temp: +125°C



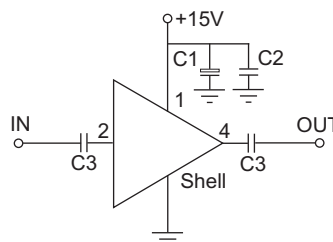
TO-8C



SMO-8C

Application Notes

1. Typical application shown as right, C₁=3.3~22 μF, C₂=3300~6800pF, C₃=1000~10000pF.
2. ESD observe handling precautions.
3. Connectorized package (SMA-1) available.
4. See assembly section for outline and mounting information.



Typical Curves

