



Features

- Frequency Range: 10~500MHz
- Active Bias Design Supply Temperature Compensation
- Standard Hermetic Package
- Operating Temperature Range: -55°C ~ +85°C

Specifications (50 Ω , $V_{CC} = +15V$, $T_A = -55^\circ C \sim +85^\circ C$)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	$f_L \sim f_H$	MHz	10~500	10~550
Gain	G_p	dB	≥ 28.0	29.0
Gain Flatness	ΔG_p	dB	$\leq \pm 0.5$	± 0.3
Noise Figure	F_n	dB	$\leq 2.0 \Delta$	1.8
Input VSWR	VSWR _i	--	$\leq 1.5:1$	1.3:1
Output VSWR	VSWR _o	--	$\leq 1.5:1$	1.3:1
Output Power @ 1dB Compression	P_{-1}	dBm	$\geq 6.0 * \Delta$	6.5
DC Current	I_{CC}	mA	--	38

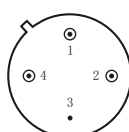
- 1) $*f = 200\text{MHz}$; $\Delta T_A = 24 \pm 1^\circ C$;
- 2) The G_p and P_{-1} will be reduced 1dB and 3dB respectively under operating at 12VDC ($I_{CC} = 32\text{mA Typ}$).

Maximum Rating

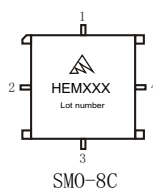
DC Voltage : +17VDC

RF Input: +10dBm

Storage Temp: +125°C



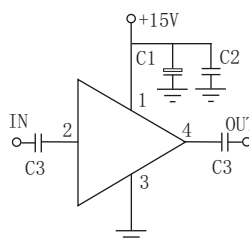
TO-8A



SMO-8C

Application Notes

1. Typical application shown as right,
 $C_1 = 3.3 \sim 22 \mu F$; $C_2 = 3300 \sim 6800 \mu F$;
 $C_3 = 1000 \mu F$;
2. See assembly section for mounting information
3. Connectorized package(SMA-1) available



Typical Curves

