

BPSK MODULATORS

SURFACE MOUNT MODEL: SBM-K5

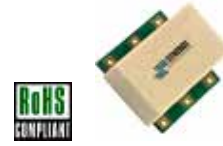
1000 - 1650 MHz

FEATURES:

- ▶ Optimized Bandwidth
- ▶ Good Phase & Amplitude Balance
- ▶ Small Size

APPLICATIONS:

- ▶ BPSK Modems
- ▶ Wired & Wireless Networks



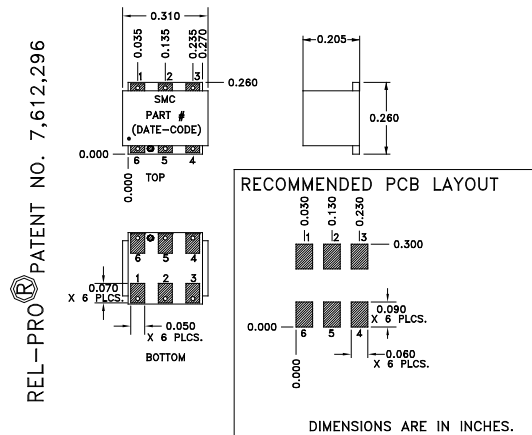
SPECIFICATIONS (Rev. B 01/13/21)

Carrier Frequency	1000 - 1650 MHz	
Insertion Loss (dB)	Typ.	Max.
	6.0	7.2
Phase Unbalance (Deg.) *	Typ.	Max.
	±4.0	±6.0
Amplitude Unbalance (dB)	Typ.	Max.
	0.6	0.8
1 dB Compression Point	0 dBm (Nom.)	
VSWR	1.8:1 (Typ.)	
Modulation (D1,D2)	±20 mA	
Modulation Bandwidth	<10% of carrier frequency	
Impedance	50 Ohms (Nom.)	
Operating Temperature Range	-40 to +85 °C	

* From 0°/180° states

Note: Maximum RF input power without damage is 150 mW or ±40 mA.

Package # 134LF

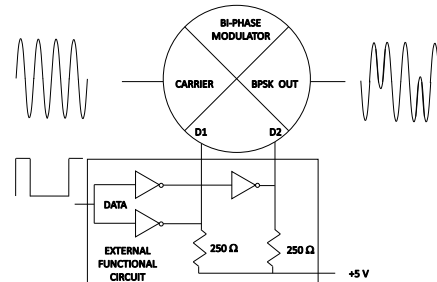


TOLERANCES ON THREE
DECIMAL PLACES= ± 0.015
PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

PORT CONFIGURATION

Input (LO)	Output (RF)	D1	D2	GND.
1	3	6	4	2,5

FUNCTIONAL DIAGRAM

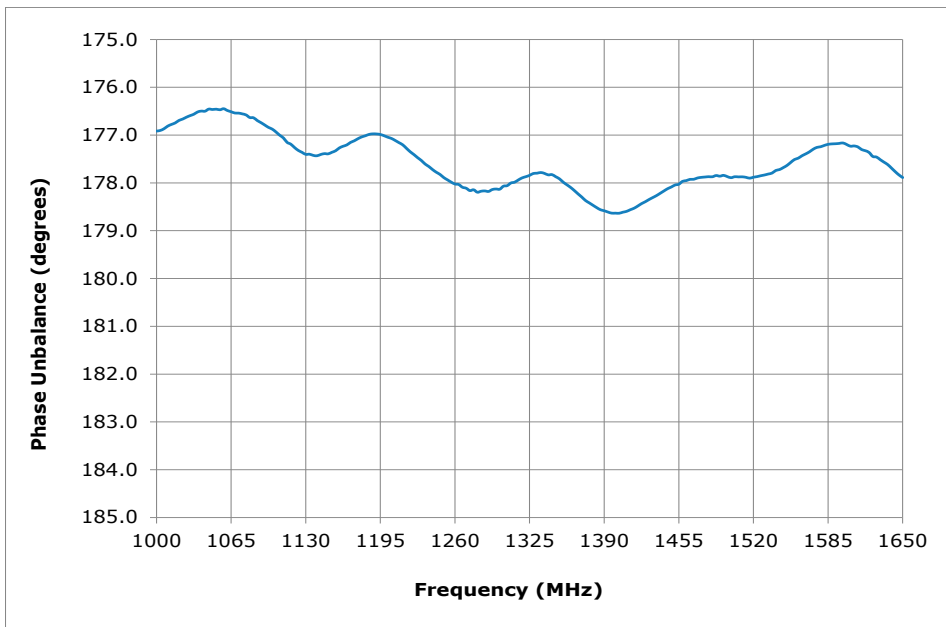
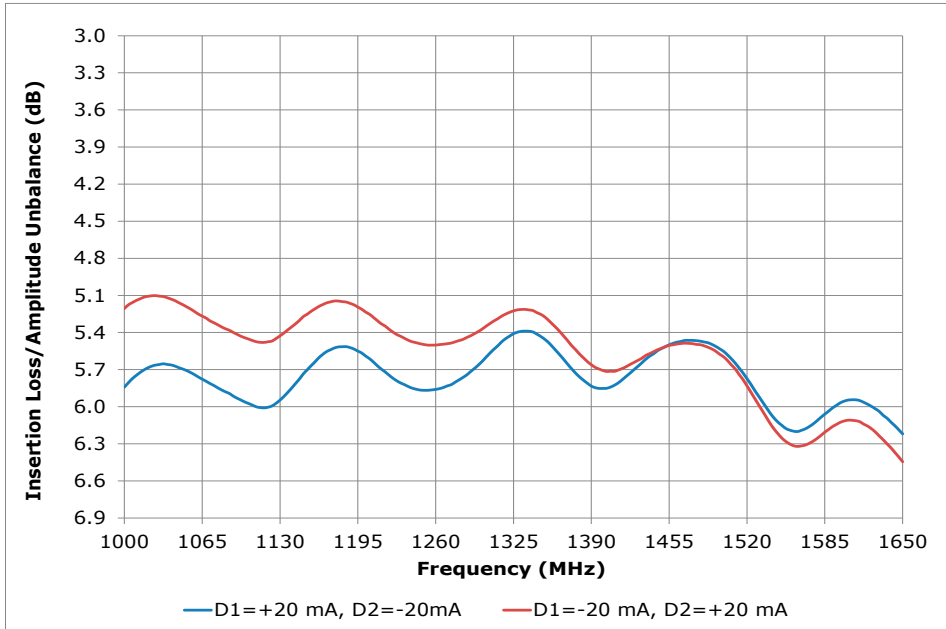


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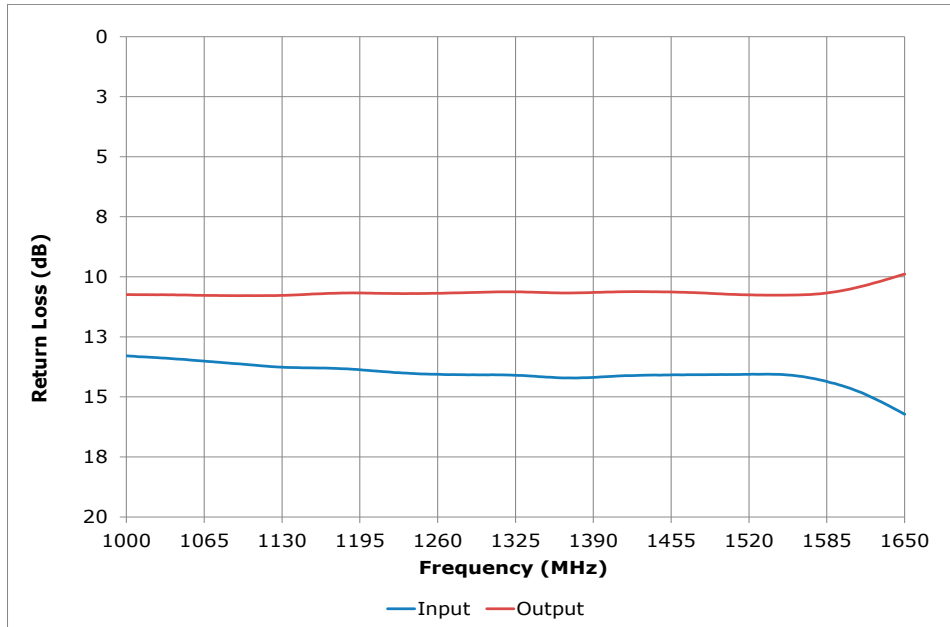
PERFORMANCE PLOTS



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