

BPSK MODULATORS

SURFACE MOUNT MODEL: SBM-C1

1 - 200 MHz

FEATURES:

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

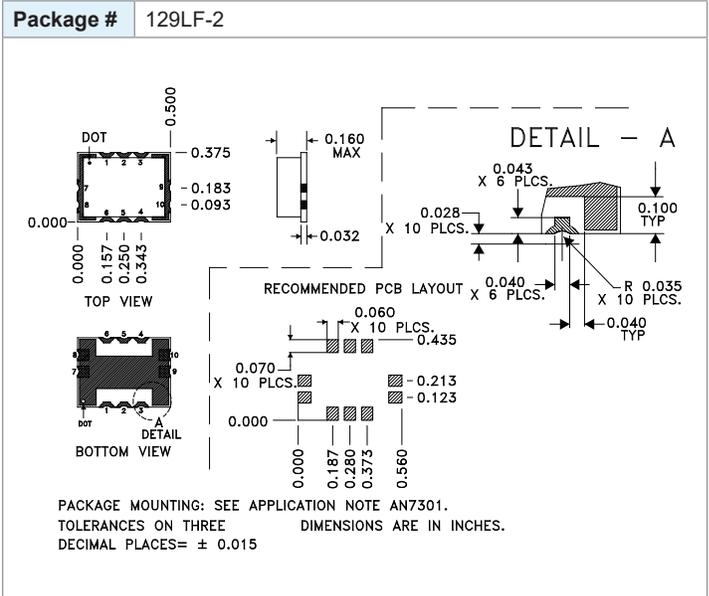
APPLICATIONS:

- ▶ BPSK Modems
- ▶ Wired & Wireless Networks



SPECIFICATIONS

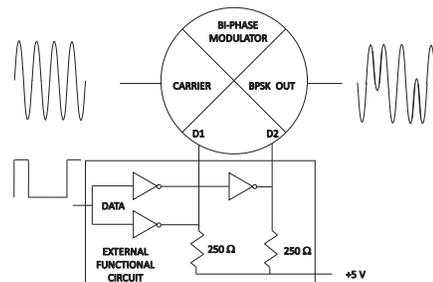
Carrier Frequency	1 - 200 MHz		
Insertion Loss (dB)	Freq. (MHz)	Typ.	Max.
	1 - 10	1.3	2.5
	10 - 100	1.1	2.3
	100 - 200	1.3	2.5
Phase Unbalance (Deg.) *	Freq. (MHz)	Typ.	Max.
	1 - 10	±0.2	±1
	10 - 100	±1	±2
	100 - 200	±2	±3
Amplitude Unbalance (dB)	Freq. (MHz)	Typ.	Max.
	1 - 10	0.01	0.1
	10 - 100	0.02	0.2
	100 - 200	0.07	0.3
1 dB Compression Point	+1 dBm (Nom.)		
VSWR	Freq. (MHz)	Typ.	Max.
	1 - 10	1.30:1	1.50:1
	10 - 100	1.10:1	1.40:1
	100 - 200	1.10:1	1.40:1
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 75 mW or ±40 mA.			



PORT CONFIGURATION

Input	Output	D1	D2	GND.	No. Conn.
1	3	6	4	7,8,9,10	2,5

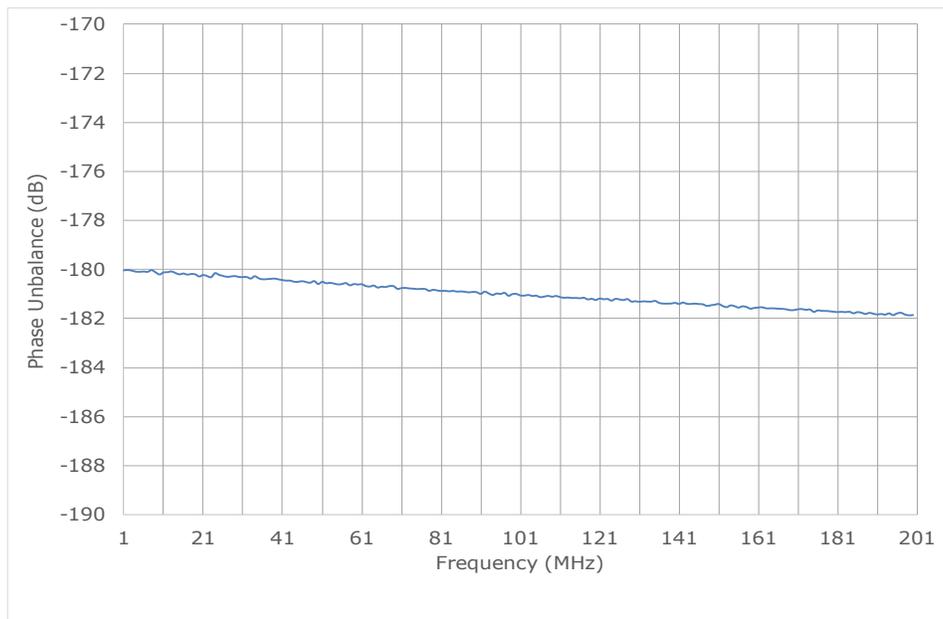
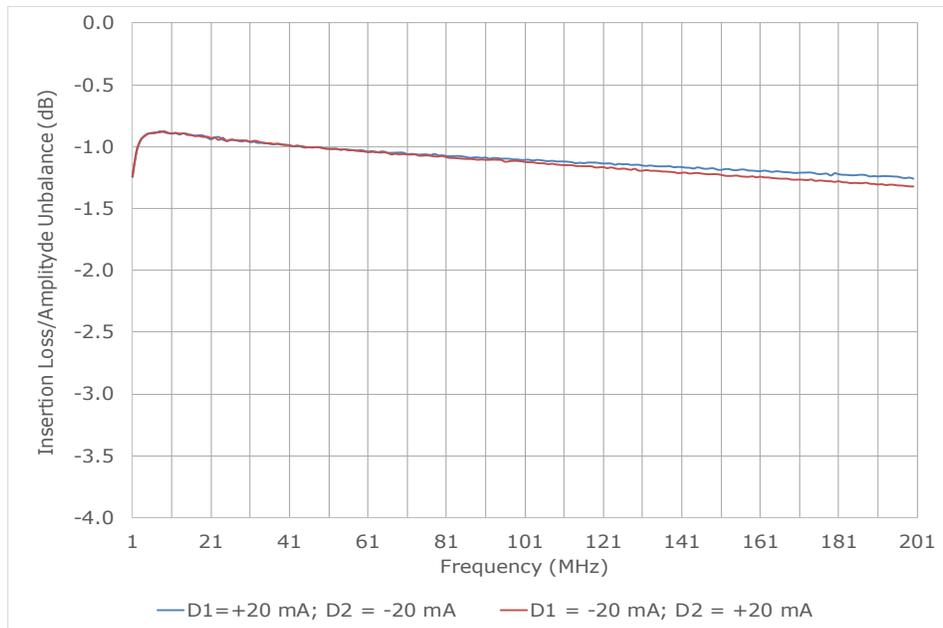
FUNCTIONAL DIAGRAM



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PERFORMANCE PLOTS

