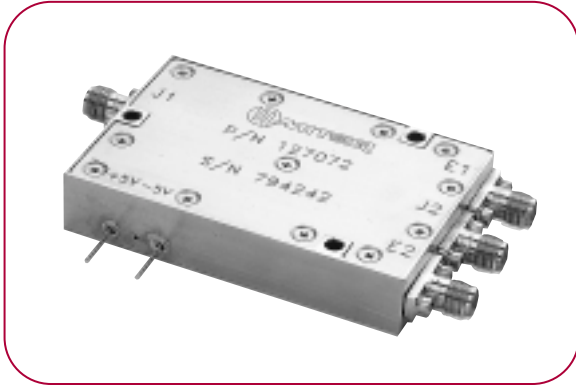


QPSK MODULATORS

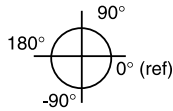
FEATURES

- Switching speed 150 ns maximum
- Phase accuracy $\pm 5^\circ$ maximum
- Amplitude balance ± 0.75 dB maximum



SPECIFICATIONS

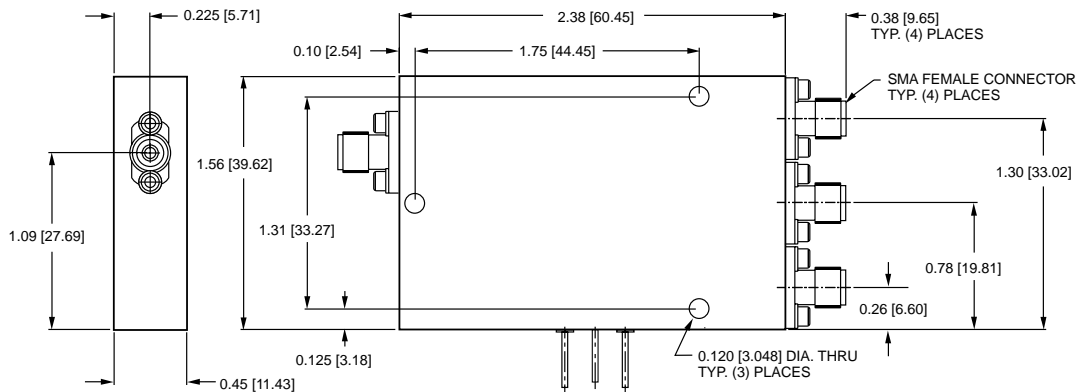
PARAMETERS	Model 127072	Model 131008
Function	Phase shifter, 2-BIT (QPSK)	Phase shifter, 2-BIT (QPSK)
Frequency range	2.2–2.3 GHz	13.3–14.1 GHz
Phase states	0°, 90°, 180°, 270°	0°, 90°, 180°, 270°
Insertion loss	8 dB maximum	8 dB maximum
VSWR		
J1, RF input	2:1 maximum	2:1 maximum
J2, RF output	3:1 maximum	3:1 maximum
Control	TTL, 2 lines (E1, E2)	TTL, 2 lines (E1, E2)
Switching speed	150 ns maximum	150 ns maximum
Phase accuracy	$\pm 5^\circ$ maximum	$\pm 5^\circ$ maximum
Amplitude balance	± 0.75 dB maximum	± 0.75 dB maximum
DC power	± 5 V @ 75 mA maximum each	± 5 V @ 75 mA maximum each
Control logic	E1 E2 State	
	0 0 0°	
	0 1 90°	
	1 0 -90°	
	1 1 180°	



ENVIRONMENTAL CONDITIONS

- Operating temperature 0 to 70°C
 Storage temperature -30 to +85°C

OUTLINE DRAWING



GENERAL NOTES:

1. Dimensions shown in brackets [] are in millimeters.
2. Tolerance as follows: .xx = ± 0.01 [.xx = ± 0.25], .xxx = ± 0.005 [.xxx = ± 0.13]