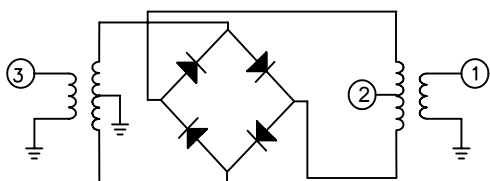


COMMERCIAL SIGNAL PROCESSING RF COMPONENTS

DESCRIPTION

The SPM6-1000M is a low cost, double balanced mixer offering excellent performance to 1000 MHz in a miniature package. The performance/cost ratio of this mixer makes the application of advanced mixer technology available to equipment designers who previously were cost-restricted to compromise designs.

FUNCTIONAL SCHEMATIC



SPECIFICATIONS

PARAMETER	MIN.	TYP.	MAX.	UNITS
Frequency Range, L-Port	10		1000	MHz
Frequency Range, R-Port	10		1000	MHz
Frequency Range, X-Port	DC		500	MHz
LO Power Range		+13		dBm
Temperature Range	-40		+85	°C
Conversion Loss*		6.0	8.50	dB
Isolation L - R	30	40		dB
Isolation L - X	20	30		dB
Isolation R - X	15	30		dB
Input IP3		+20		dBm

* X = 100 MHz, LO > RF

PACKAGE

COVER MATERIAL:

Plastic

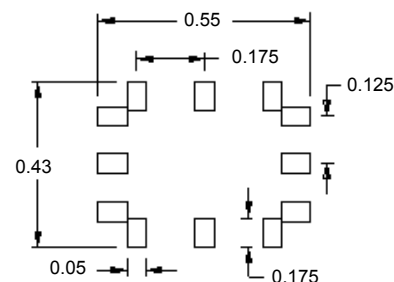
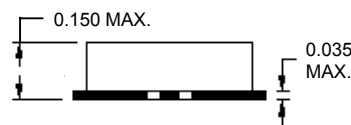
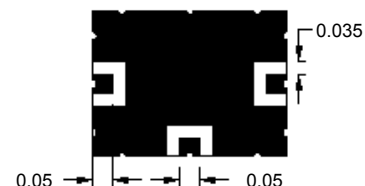
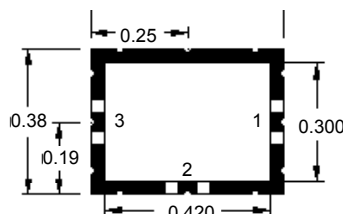
BASE MATERIAL:

FR-4

Note: All half via contacts are plated through from the pad on the top side to the pad on the bottom side of the board.

Pinout Chart	
Pin	Function
1	RF Port
2	IF Port
3	LO Port

ALL DIMENSIONS ARE IN INCHES.



TOLERANCES:

.XX = ±.01

.XXX = ±.005

Recommended Land
Pattern

1.27.05 Rev B