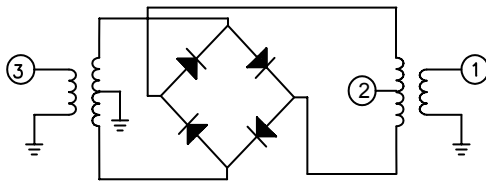


COMMERCIAL SIGNAL PROCESSING RF COMPONENTS

DESCRIPTION

The SPM-6-1000M 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:

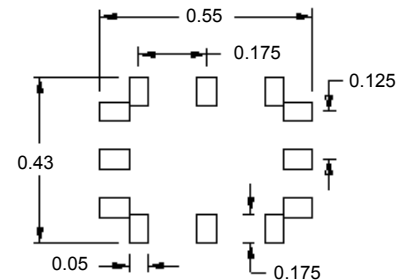
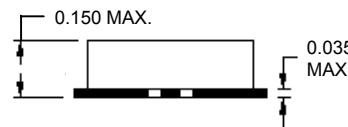
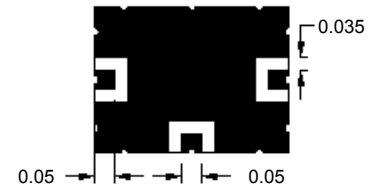
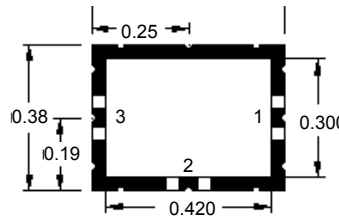
Plastic

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.

ALL DIMENSIONS ARE IN INCHES.



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

TOLERANCES:
 .XX = ±.01
 .XXX = ±.005

Recommended Land Pattern