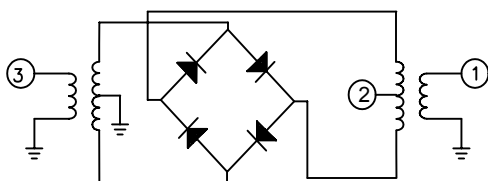


COMMERCIAL SIGNAL PROCESSING RF COMPONENTS

DESCRIPTION

The SPM6-250H is a low cost, double balanced mixer offering excellent performance to 250 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	50		250	MHz
Frequency Range, R-Port	50		250	MHz
Frequency Range, X-Port	DC		150	MHz
LO Power Range		+17		dBm
Temperature Range	-40		+85	°C
Conversion Loss		5.5	7	dB
Isolation L - R	40	50		dB
Isolation L - X	35	45		dB
Isolation R - X	20	25		dB
1 dB Compression		+10		dBm
Input IP3		+30		dBm

PACKAGE

COVER MATERIAL:

Plastic

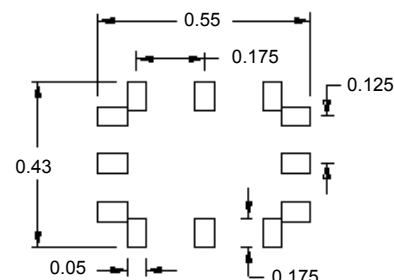
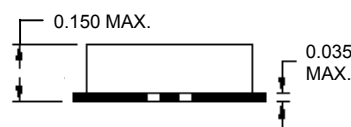
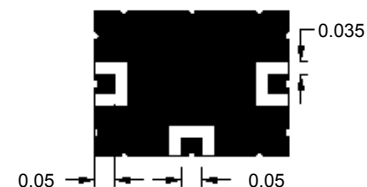
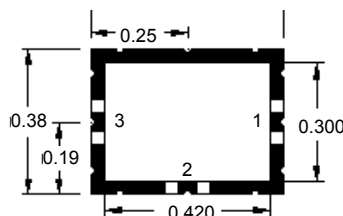
BASE MATERIAL:

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. C