

RF PASSIVE COMPONENTS

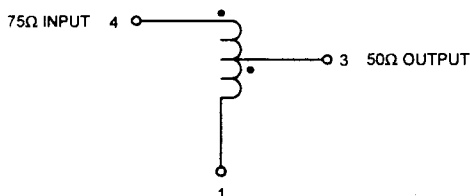
DESCRIPTION

The CRT-105 is a wideband RF, subminiature surface mount, impedance transformer suitable for pick and place assembly.

This device offers low insertion loss and excellent insertion loss flatness over a very broad bandwidth and is recommended for applications where these parameters are critical.

The FR-4 substrate makes this device highly suited to mounting on FR-4 board assemblies due to the matched coefficients of thermal expansion.

FUNCTIONAL SCHEMATIC



SPECIFICATIONS

PARAMETER	MIN.	TYP.	MAX.	UNITS
Frequency Range	5		1000	MHz
Impedance Ratio		1.5:1		
Temperature Range	-40		+85	°C
Insertion loss		0.4	1.00	dB
Insertion loss Flatness		0.3		dB
Return Loss (Input, 5-860 MHz)	16	27		dB
Return Loss (Input, >860 MHz)		16		dB

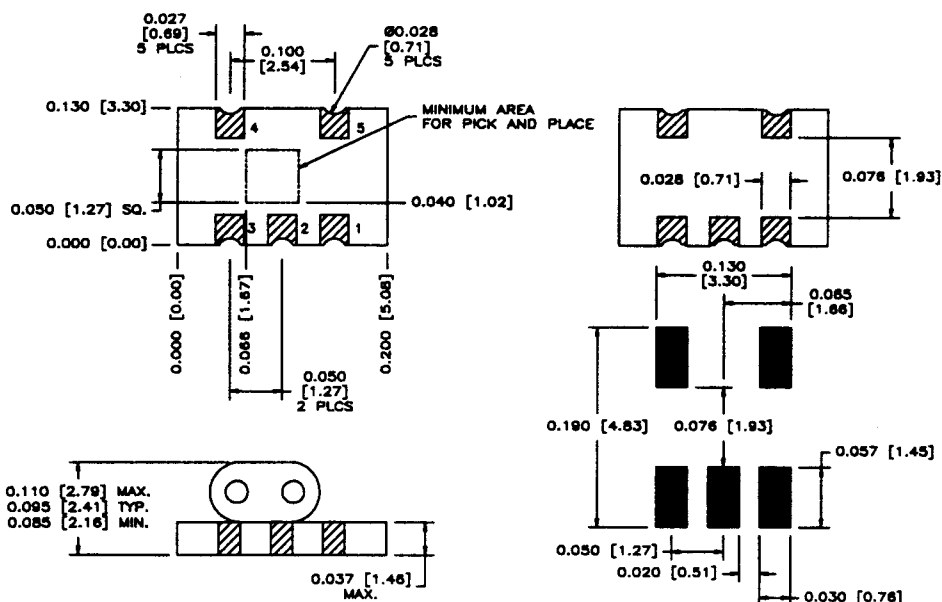
PACKAGE

SUBSTRATE 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 [mm].



Pin	Function
1	Ground
2	N/C
3	50Ω Output
4	75Ω Input
5	N/C

TOLERANCES:

.XX = ±.01
.XXX = ±.005

Recommended Land Pattern