

## RF PASSIVE COMPONENTS

### DESCRIPTION

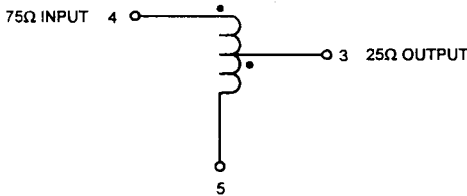
The CRT-101 is a wideband RF, subminiature surface mount, impedance transformer suitable for pick and place assembly.

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. Some applications may require a shunt capacitor from pin 3 to ground for optimum performance.

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

SPECIFICATIONS				
PARAMETER	MIN.	TYP.	MAX.	UNITS
Frequency Range	5		1000	MHz
Impedance Ratio		3:1		
Temperature Range	-40		+85	°C
Insertion loss		0.4	1.25	dB
Insertion loss Flatness		0.6		dB
Return Loss (Input)		16		dB

### FUNCTIONAL SCHEMATIC



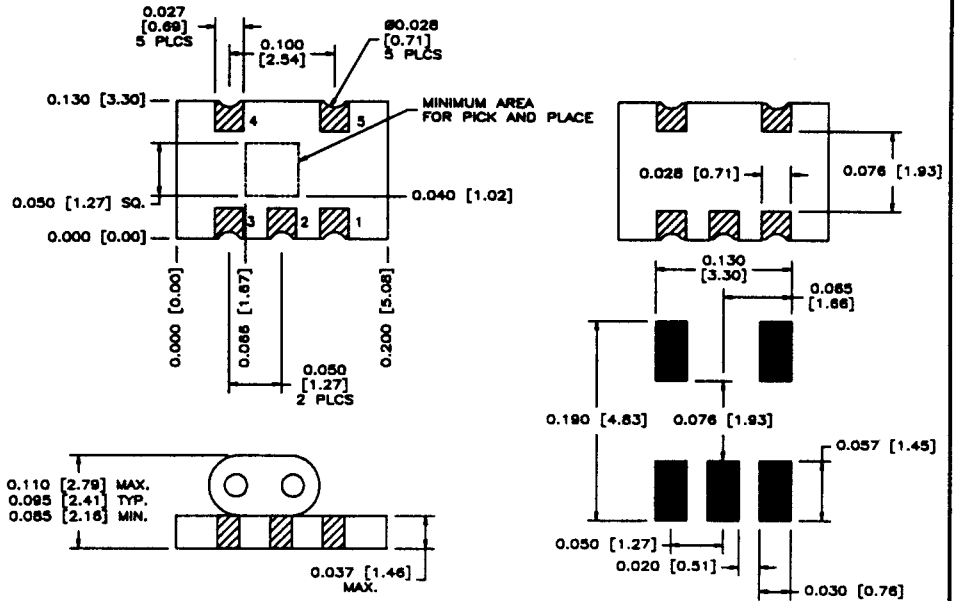
### PACKAGE

#### 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	N/C
2	N/C
3	25Ω Output
4	75Ω Input
5	Ground

**TOLERANCES:**  
.XX = ±.01  
.XXX = ±.005

**Recommended Land Pattern**