

# LTCC 低通滤波器 (Low Pass Filter)

HT-LFCW-123+

## Features

- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

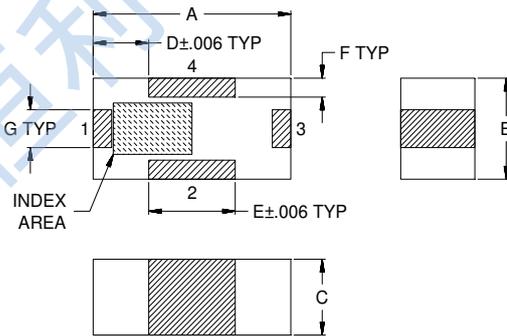
## Applications

- Test and measurements.
- Telecommunications and broadband wireless system.
- Satcom modems.

## Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

## Outline Drawing

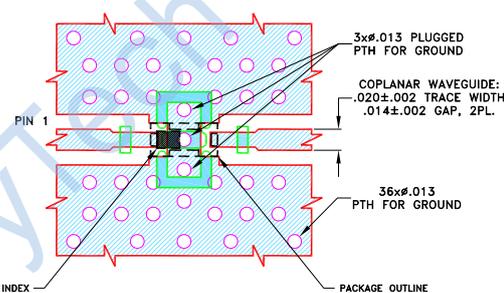


Suggested Layout,  
Tolerance to be within  $\pm 0.02$

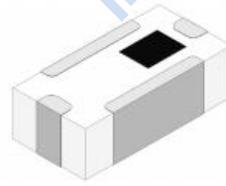
## Outline Dimensions : inch mm

A	B	C	D	E	F	G
.063	.032	.024	.012	.008	.006	.020
1.60	0.80	0.60	0.30	0.20	0.15	0.50

## Suggested PCB Layout



- NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (R04835 Lo Pro) WITH DIELECTRIC THICKNESS .0107 $\pm$ .0010. COPPER: 1/2 Oz. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
  2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
- DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK



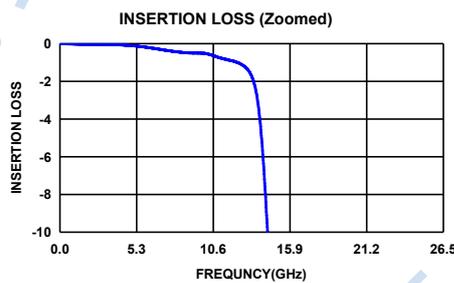
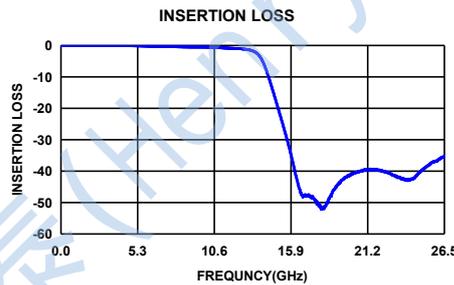
50  $\Omega$   
DC to 12000MHz

## Electrical Specifications(1) at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units	
Passband	Insertion Loss	DC-12000	—	1.2	2.1	dB
	Freq. Cut-Off	13800	—	3.0	—	dB
	Return Loss	DC-12000	—	10	—	dB
Stop Band	Rejection Loss	16300-18500	20	38	—	dB
		18500-22000	28	38	—	
		22000-25000	25	35	—	
		25000-26500	—	20	—	

1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

## Typical Performance Data at 25°C



## Maximum Ratings

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	2.5W at 25°C

\*Permanent damage may occur if any of these limits are exceeded.