

# LTCC 低通滤波器 (Low Pass Filter)

HT-LFCW-6000+

## Features

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

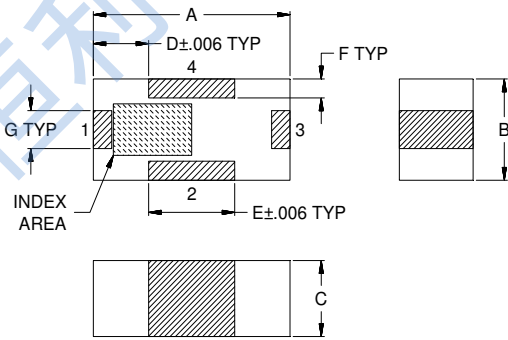
## Applications

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

## Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

## Outline Drawing

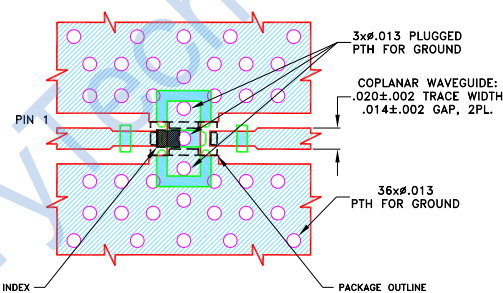


Suggested Layout,  
Tolerance to be within ±.002

## Outline Dimensions : inch mm

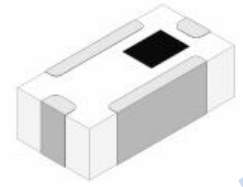
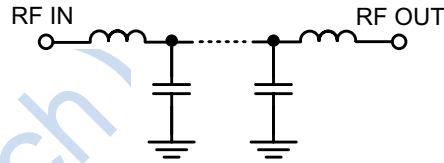
A	B	C	D	E	F	G	Wt.
.063	.032	.024	.018	.028	.008	.012	grams
1.60	0.80	0.60	0.45	0.70	0.20	0.30	.15

## Suggested PCB Layout



- NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (R04835 Lo Pro) WITH DIELECTRIC THICKNESS .0107±.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

## Functional Schematic



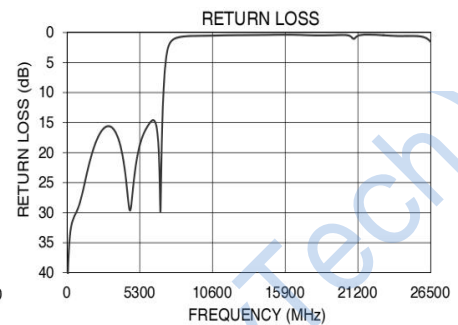
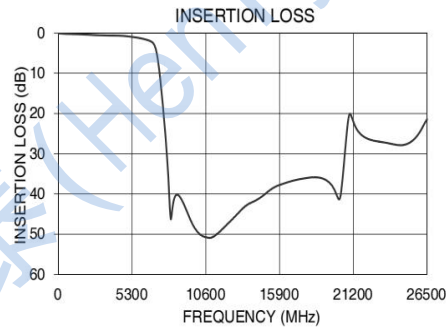
50 Ω  
DC to 6000MHz

## Electrical Specifications(1) at 25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units	
Passband	Insertion Loss	DC-6000	—	1.6	2.1	dB
	Freq. Cut-Off	6800	—	3.0	—	dB
	Return Loss	DC-6000	—	14	—	dB
Stop Band	Rejection Loss	8200-9000	20	43	—	dB
		9000-14000	30	42	—	
		14000-18000	25	35	—	
		18000-26500	—	15	—	

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.