

LTCC 低通滤波器 (Low Pass Filter)

HT-LFCW-5500+

Features

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

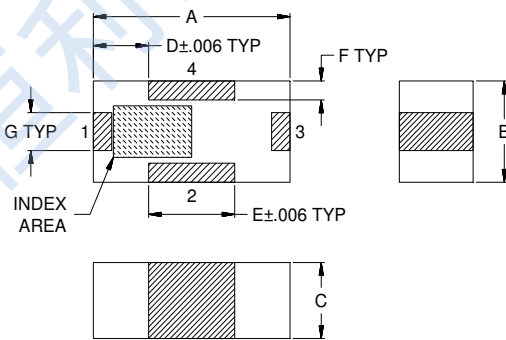
Applications

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

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

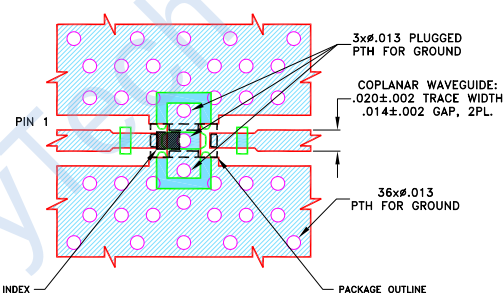


Suggested Layout,
Tolerance to be within ± 0.02

Outline Dimensions : inch mm

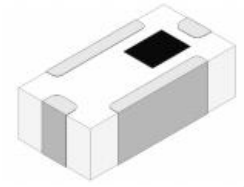
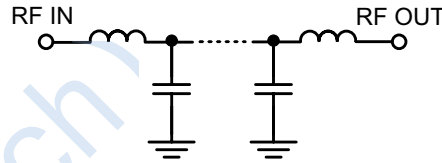
A	B	C	D	E	F	G	Wt.
.063	.032	.024	.018	.028	.006	.012	grams
1.60	0.80	0.60	0.45	0.70	0.15	0.30	.005

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

Functional Schematic



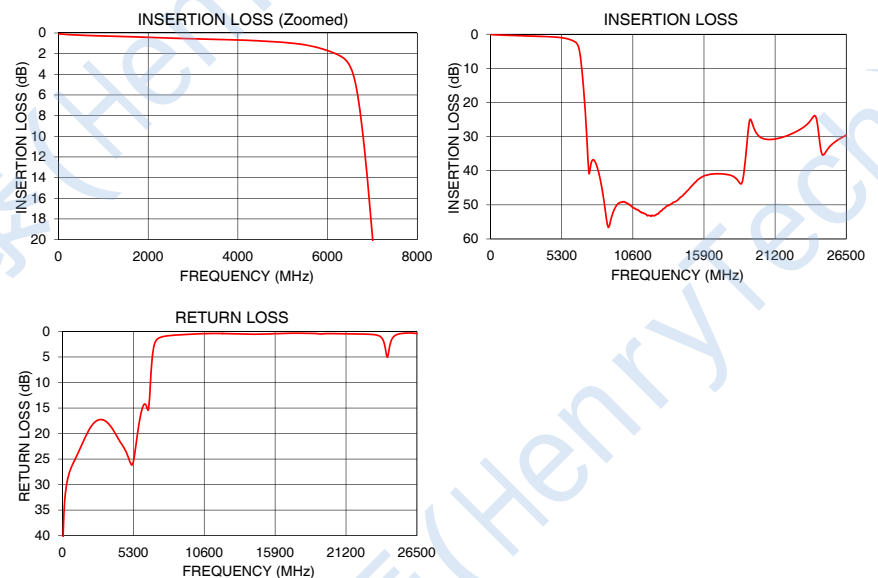
50 Ω
DC to 5500MHz

Electrical Specifications(1) at 25°C

Parameter		Frequency (GHz)	Min.	Typ.	Max.	Units
Passband	Insertion Loss	DC-5.5	—	1.5	2.0	dB
	Freq. Cut-Off	6.32	—	3.0	—	dB
	Return Loss	DC-5.5	—	11	—	dB
Stop Band	Rejection Loss	7.5-8.1	20	32	—	dB
		8.1-11.5	30	40	—	
		11.5-17	28	36	—	
		17-26.5	—	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.

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