

LTCC 高通滤波器 (High Pass Filter)

HT-HFCW-9500+

Features

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

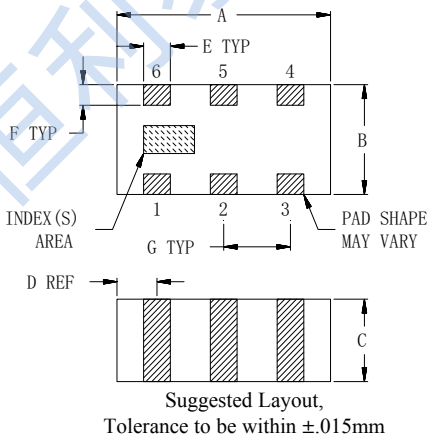
Applications

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

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4,5,6

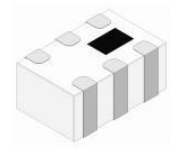
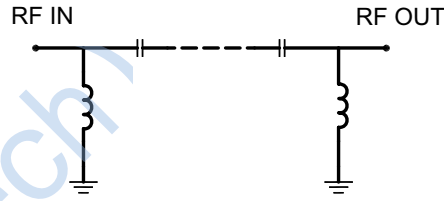
Outline Drawing



Outline Dimensions : inch mm

A	B	C	D	E	F	G	Wt.
.063	.032	.024	.012	.008	.006	.020	grams
1.60	0.80	0.60	0.30	0.20	0.15	0.50	.005

Functional Schematic



50 Ω
10.5 to 20GHz

Electrical Specifications(1) at 25°C

Parameter		Frequency (MHz)	Min.	Typ.	Max.	Unit
Stopband	Rejection Loss	DC-6000	30	36	—	dB
	Freq. Cut-Off	6000-7800	23	36	—	dB
		9650	—	3.0	—	
Passband	Insertion Loss	10500-12000	—	1.9	—	dB
		12000-17500	—	0.9	1.6	
		17500-20000	—	1.2	—	
	Return Loss	10500-12000	—	14	—	
		12000-17500	—	12	—	
		17500-20000	—	8	—	

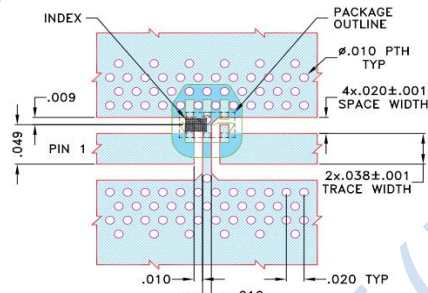
1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

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.

Suggested PCB Layout



NOTES:

1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (R03003) WITH DIELECTRIC THICKNESS .020±.001 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 PATTERN WITH SMOBC (SOLDER MASK OVER BARE COPPER)
■ DENOTES PCB COPPER PATTERN FREE OF SOLDERMASK