

LTCC 高通滤波器 (High Pass Filter)

HT-HFCN-3100+

Features

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

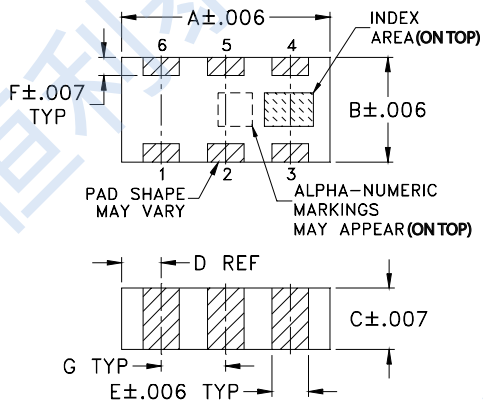
Applications

- Sub-harmonic rejection.
- Transmitters/receivers.
- Lab use.

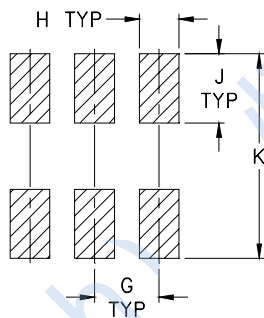
Pad Connections

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

Outline Drawing



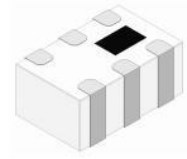
PCB Land Pattern



Outline Dimensions : inch mm

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K	wt	
.039	.024	.042	.123	grams	
0.99	0.61	1.07	3.12	.020	

Functional Schematic



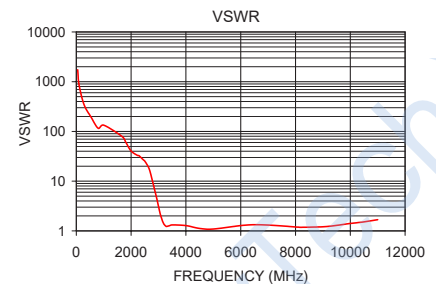
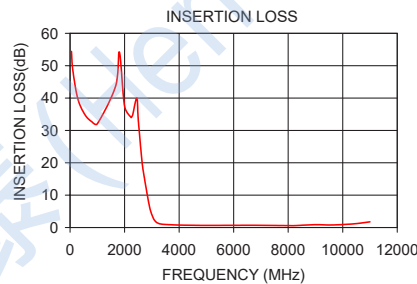
50 Ω
3400MHz to 9900MHz

Electrical Specifications(1) at 25°C

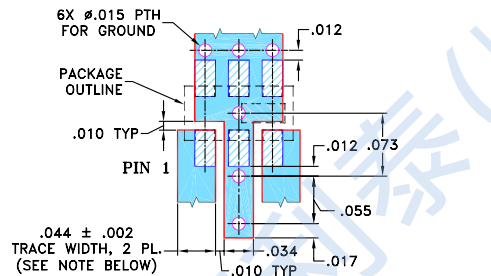
Parameter		Frequency (MHz)	Min.	Typ.	Max.	Units
Pass Band	Insertion Loss	3400-9900	—	—	2.0	dB
		3500-9500	—	—	1.5	
	VSWR	3100-10500	—	1.5	—	: 1
Stop Band	Rejection Loss	2500	—	30	—	dB
		2450	20	—	—	
	Freq. Cut-Off	3100	—	3.0	—	dB
	VSWR	2450-2500	—	20	—	: 1

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

Typical Performance Data at 25°C



Suggested PCB Layout



NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350 WITH DIELECTRIC THICKNESS: .020 ± .0015; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT
 - DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Maximum Ratings

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	7W at 25°C

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