

LTCC 高通滤波器 (High Pass Filter)

HT-HFCN-7971+

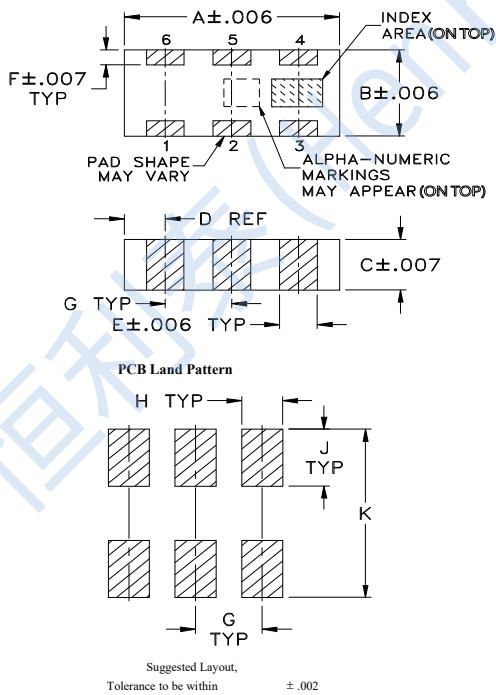
Features

- Low cost
- Small size
- 7 sections
- Temperature stable
- LTCC construction
- Excellent power handling, 7W
- Hermetically sealed

Applications

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

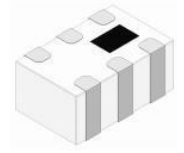
Outline Drawing



Outline Dimensions

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

8560MHz to 12800MHz

Electrical Specifications(1,2) at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Units
Rejection Loss	DC-F1	DC-5500	25	30	—	dB
Stop Band	F1-F2	5500-6945	17	22	—	dB
Freq. Cut-Off	F3	8000	—	3.4	—	dB
VSWR	DC-F2	DC-6945	—	40	—	:1
Insertion Loss	F4-F7	8560-12800	—	1.4	4.0	dB
Pass Band	F5-F6	9975-12350	—	1.0	2.0	dB
VSWR	F4-F7	8560-12800	—	1.7	—	:1

Pad Connections

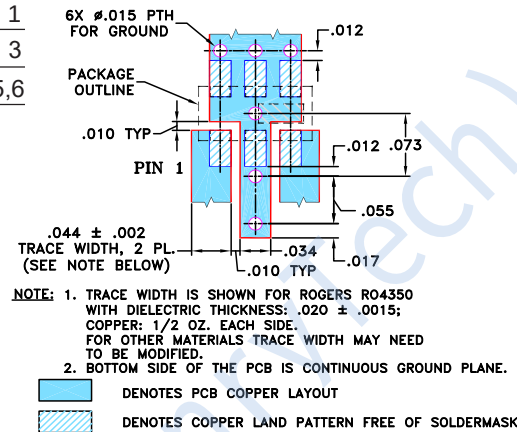
RF IN	1
RF OUT	3
GROUND	2,4,5,6

Maximum Ratings

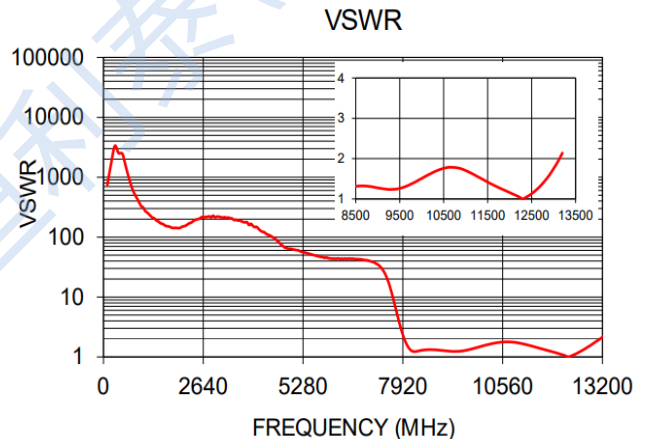
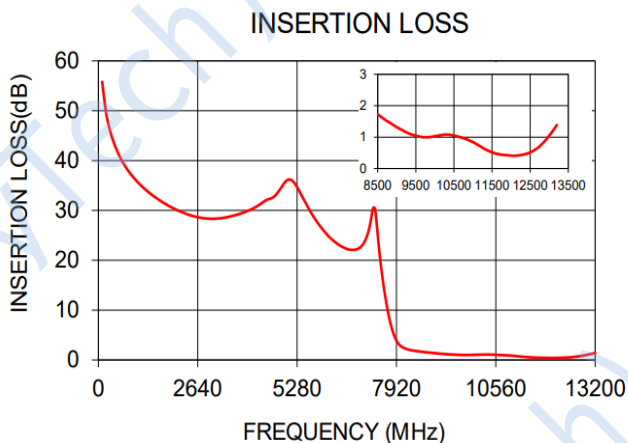
Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	7W max at 25°C

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

Suggested PCB Layout



Typical Performance Data at 25°C



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