High Pass Filter

JY-HFCG-3800+

50Ω 4200 to 18000 MHz

Features

- Low insertion loss.
- Very good rejection
- Small size 2.0 mm x 1.25 mm
- Temperature stable
- LTCC construction

Applications

- Test and measurements
- Military applications
- Telecommunications and broadband wireless system

Electrical Specifications at 25° C

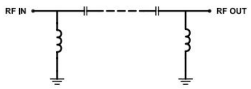
Parameter		Frequency (MHz)	Min.	Typ.	Max.	Unit
Passband	Insertion Loss	4200 - 4700	—	1.8	—	dB
		4700 - 5500	—	0.9	1.5	dB
		5500 - 16000	—	0.6	1.1	dB
		16000 - 18000	—	1.0	—	dB
	Return Loss	4200 - 18000	—	13	—	dB
Stopband	Rejection Loss	DC - 2700	37	42	—	dB
		2700 - 3000	24	34	—	dB
	Freq. Cut-Off	3800	—	2.8	—	dB

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	3W max. at 25°C

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

Electrical Schematic



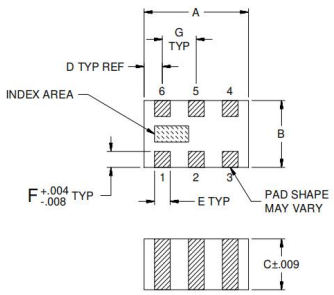
Pin Connections

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

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
10	73.86	0.09
100	62.00	0.10
500	49.55	0.20
1000	44.49	0.22
2700	53.73	0.37
3000	36.64	0.55
3320	20.40	0.96
3500	12.21	1.76
3780	3.11	8.68
3800	2.82	9.69
4000	1.46	20.70
4200	1.09	26.10
4700	0.75	19.61
5500	0.50	19.04
8000	0.29	18.55
10000	0.19	19.37
14000	0.16	25.06
16000	0.29	23.72
18000	0.71	24.59
20000	7.13	3.78

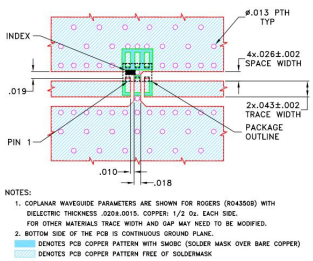
Outline Drawing

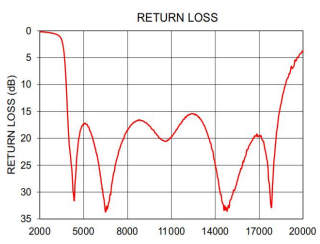


Outline Dimensions: Unit (mm)

A	2.00	B	1.25	C	0.95
D	0.35	E	0.30	F	0.30
G	0.65	wt	0.008g		

Suggested PCB Layout





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