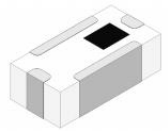
Low Pass Filter

JY-LFCN-113+



Generic photo used for illustration purposes only

50Ω DC to 11000 MHz

Features

- excellent power handling
- small size
- 7 sections
- temperature stable
- LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

Applications

- harmonic rejection
- VHF/UHF transmitters/receivers
- Base Station of Mobile Communication、lab use.

Maximum Ratings	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8W max. at 25°C

* Passband rating, derate linearly to 3W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

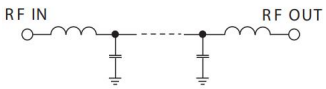
Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-10800	-	1.3	2.0	dB
	Freq.Cut-Off	11610	-	3.0	-	dB
	VSWR	DC-10800	-	1.6	-	:1
Stop Band	Rejection Loss	14000	20	-	-	dB
		14500-20000	-	35	-	dB
	VSWR	14500-20000	-	20	-	:1

Typical Performance Data at 25°C

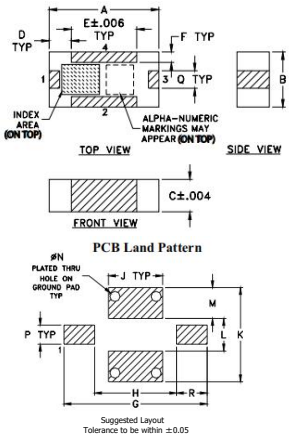
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	0.11	1.01
1000	0.27	1.32
1210	0.32	1.39
1410	0.37	1.47
2010	0.50	1.64
3200	0.47	1.59
3800	0.35	1.18
4200	0.35	1.18
5000	0.60	1.61
6260	0.80	1.77
8450	0.97	1.74
1005	0.97	1.74
11060	1.57	1.87
13290	30.98	27.77
15410	38.04	78.16
18650	49.07	66.83
20000	35.74	71.79

Electrical Schematic

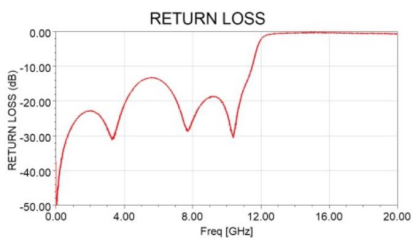


Pin Connections	
RF IN	1
RF OUT	3
GROUND	2,4

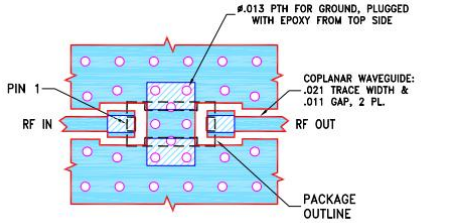
Outline Drawing







Suggested PCB Layout



NOTES:
1. TRACE WIDTH & GAP PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010±.001. COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & 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 SOLDER MASK.

Outline Dimensions: Unit (mm)					
A	3.20	B	1.60	C	0.94
D	0.66	E	1.91	F	0.30
G	4.62	H	2.64	J	1.75
K	3.02	L	1.04	M	0.99
N	0.33	P	0.61	Q	0.51
R	0.99	wt	0.02g		

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