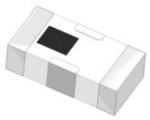
Low Pass Filter

JY-LFCN-6400+



Generic photo used for illustration purposes only

50Ω DC to 6400 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*	10W max. at 25°C

* Passband rating, derate linearly to 3.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

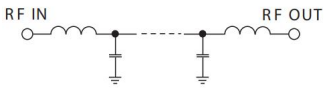
Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-6400	-	-	2.0	dB
	Freq.Cut-Off	7200	-	3.0	-	dB
	VSWR	DC-6400	-	1.2	-	:1
Stop Band	Rejection Loss	8500	20	30	-	dB
		12500	20	25	-	dB
	VSWR	8500-12500	-	17	-	:1

Typical Performance Data at 25°C

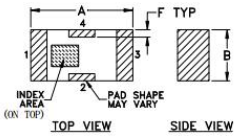
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.03	1.01
500	0.10	1.07
2000	0.24	1.10
4000	0.38	1.11
5500	0.55	1.15
6400	0.88	1.42
7000	1.24	1.55
7200	1.43	1.62
7350	1.66	1.72
7500	2.86	1.91
7680	3.54	2.38
7770	14.91	2.78
8300	35.75	9.56
10200	25.77	32.41
11000	25.87	33.02
12500	30.63	21.63
15000	2.03	11.41

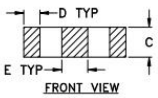
Electrical Schematic

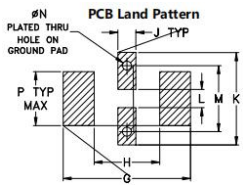


Pin Connections	
RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

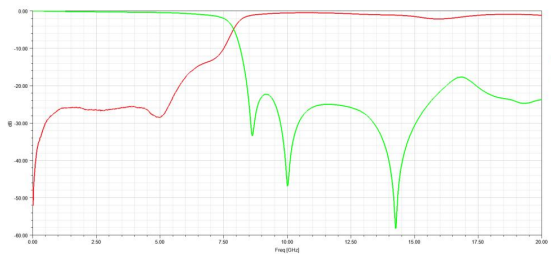




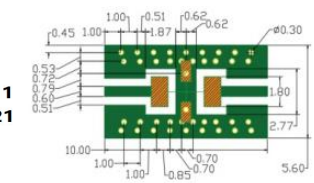


Outline Dimensions：Unit (mm)

A	3.20	B	1.60	C	0.95
D	0.51	E	0.81	F	0.23
G	4.29	H	2.21	J	0.61
K	3.10	L	0.61	M	2.21
N	0.30	P	1.80	wt	0.02g



Suggested PCB Layout



COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
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

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