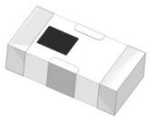
Low Pass Filter

JY-LFCN-800+



Generic photo used for illustration purposes only

50Ω DC to 800 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.

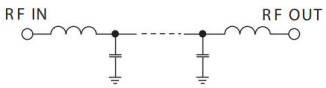
Maximum Ratings	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	9W max. at 25°C

** Passband rating, derate linearly to 4W 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-800	-	0.8	1.2	dB
	Freq.Cut-Off	1000	-	3.0	-	dB
	VSWR	DC-800	-	1.2	1.5	:1
Stop Band	Rejection Loss	1400	20	30	-	dB
		1500-2000	30	35	-	dB
		4500	30	35	-	dB
	VSWR	1150-4500	-	20	-	:1

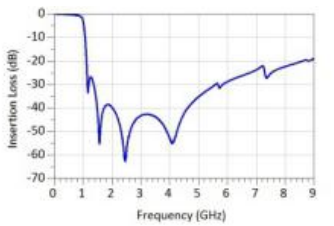
Electrical Schematic

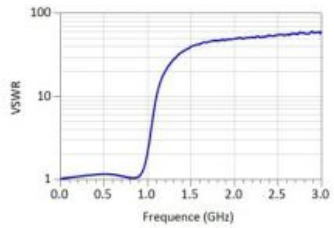


Pin Connections	
RF IN	1
RF OUT	3
GROUND	2,4

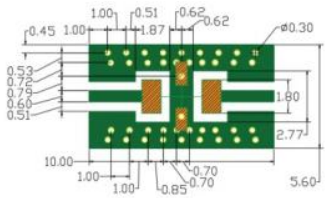
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.08	1.04
500	0.37	1.27
800	0.68	1.10
900	1.03	1.10
1015	3.03	2.09
1117	16.05	9.73
1180	25.87	16.47
1279	33.43	24.76
1615	58.89	42.77
1905	39.93	48.45
2457	63.31	54.64
3229	41.89	68.97
4118	78.75	70.83
6000	28.14	51.29
8000	22.32	33.71



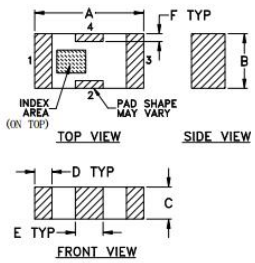


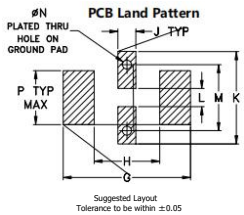
Suggested PCB Layout



NOTES: 1. 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.
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 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

JY-LFCN-800+

Tel : +86 0755-27881106
Fax : +86 0755-27597069
Add : 806 Building B7, Tianrui Industrial Park, Fuyong Street, Baoan District, Shenzhen