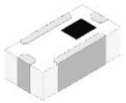
Low Pass Filter

JY-LFCN-1282+

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.



Generic photo used for illustration purposes only

50Ω DC to 12800 MHz

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.

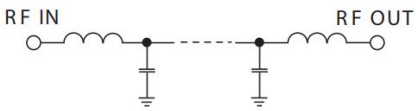
Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-12800	-	1.2	4.0	dB
	Freq.Cut-Off	13900	-	3.0	-	dB
	VSWR	DC-12800	-	1.7	-	:1
Stop Band	Rejection Loss	16200-19500	20	30	-	dB
		16500-20000	30	40	-	dB
	VSWR	16200-20330	-	40	-	:1

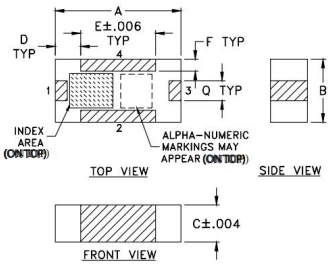
Pin Connections	
RF IN	1
RF OUT	3
GROUND	2,4

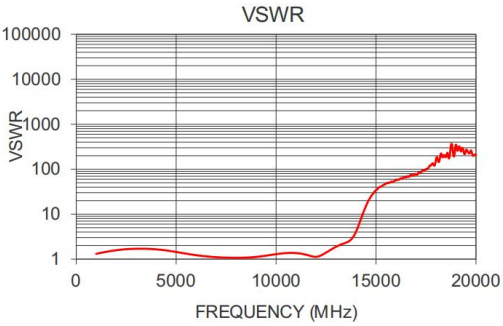


Electrical Schematic

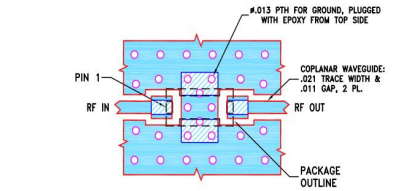


Outline Drawing





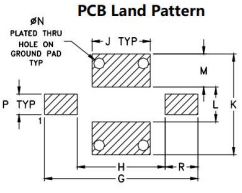
Suggested PCB Layout



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.

PCB Land Pattern



Suggested Layout
Tolerance to be within ±0.05

Outline Dimensions：Unit (mm)0

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		

JY-LFCN-1282+

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