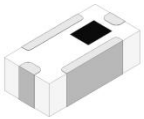
Bandpass Filter

JY-BFCN-2500+

Features
- excellent power handling
- small size
- temperature stable
- LTCC construction , and has good moistureresistance, corrosion resistance, high reliability.

Applications
- Harmonic rejection
- Transmitters / Receivers



Generic photo used for illustration purposes only

50Ω 2100 to 2900 MHz

Maximum Ratings

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

* Passband rating, derate linearly to 1W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

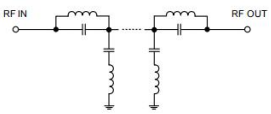
RF IN	1
RF OUT	3
GROUND	2,4

Electrical Specifications[1] at 25°C

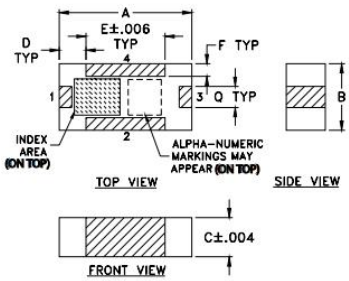
Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency Insertion Loss VSWR	 2100-2900 2100-2900	 - -	2500 2.0 1.5	 3.0 1.8	MHzd B :1
Stop Band, Lower	Insertion Loss VSWR	DC-1600 DC-1600	- -	28 20	- -	dB :1
Stop Band, Upper	Insertion Loss VSWR	3700-5200 3700-5200	- -	28 20	- -	dB :1

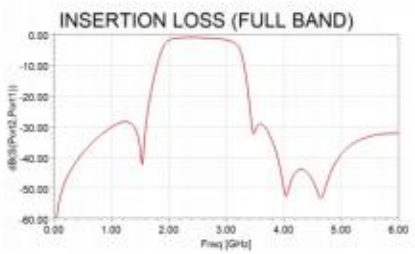
1. This filter is not intended for use as a DC Blocking circuit element. In Application where DC voltage is present at either input or output ports, blocking capacitors are required at the corresponding RF port.

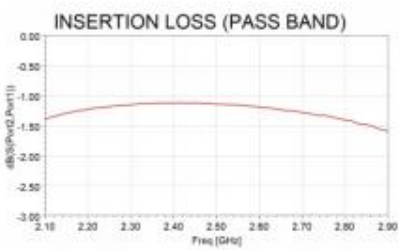
Functional Schematic

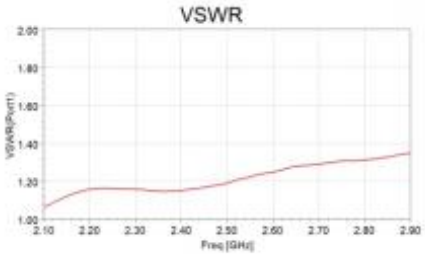


Outline Drawing

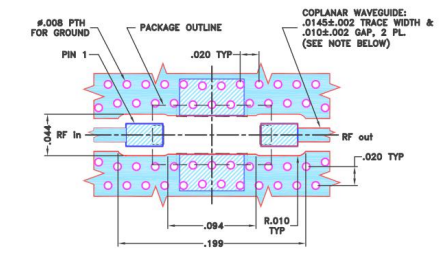








Suggested PCB Layout

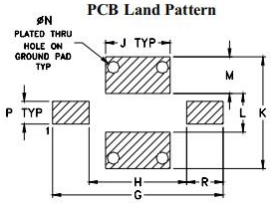


NOTES:
1. TRACE WIDTH PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .0066"±.0007". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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)

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-BFCN-2500+

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