

# LTCC 带通滤波器 (LTCC Bandpass Filter)

# HT-BFCN-2850+

## The Big Deal

- Small size 3.2mm x 1.6mm
- Low loss in passband
- Very high rejection over wide band

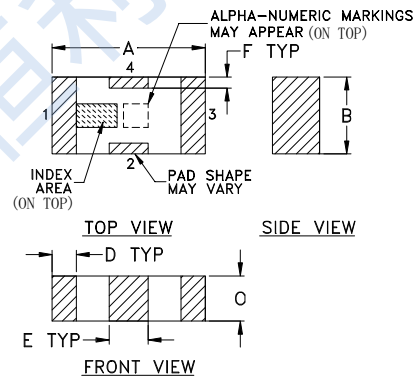
## Features and Applications

- Small size
- Temperature stable
- Hermetically sealed
- LTCC construction
- Harmonic Rejection
- Transmitters / Receivers
- Test and Measurement

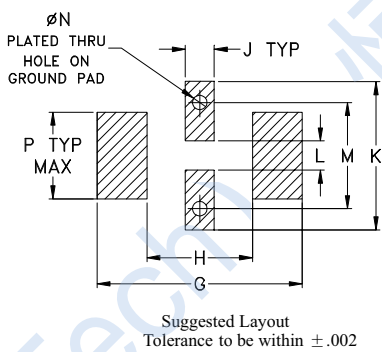
## Pad Connections

Input	1
Output	3
Ground	2、4

## Outline Drawing



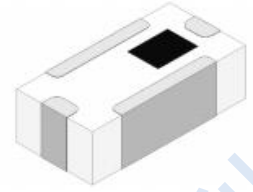
## PCB Land Pattern



## Outline Dimensions : inch mm

A	B	C	D	E	F	G		
.126	.063	.037	.020	.032	.009	.169		
3.20	1.60	0.94	0.51	0.81	0.23	4.29		
H	J	K	L	M	N	P	wt	
.087	.024	.122	.024	.087	.012	.071	grams	
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020	

50 Ω  
2750MHz to 2950MHz

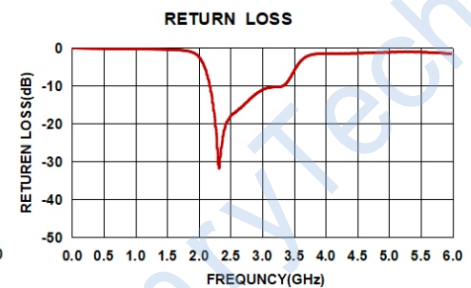
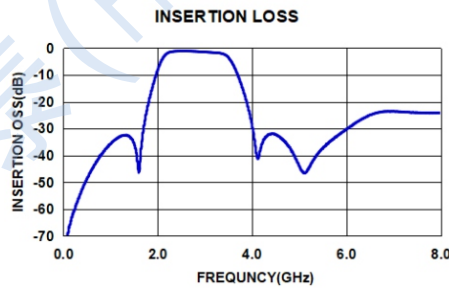


## Electrical Specifications(1) at 25°C

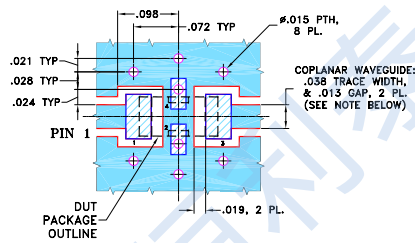
Parameter		Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	2850	—	MHZ
	Insertion Loss	2750-2950	—	—	4.0	dB
	Return Loss	2750-2950	10.2	17.7	—	dB
Stop Band, Lower	Insertion Loss	DC-1450	—	25	—	dB
		DC-1500	20	—	—	dB
Stop Band, Upper	Insertion Loss	4300-4350	20	—	—	dB
		4350-5900	—	25	—	dB

1. This component should not be used as a DC-block. In applications where DC voltage and/or current is present at either the input or output ports, external DC blocking capacitors are required.

## Typical Performance Data at 25°C



## Suggested PCB Layout



- NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .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

## Maximum Ratings

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	1.5W at 25°C

\*Permanent damage may occur if any of these limits are exceeded.