

HT-BFCN-2850+

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

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

Input	1
Output	3
Ground	2, 4

$\varnothing N$
 PLATED THRU
 HOLE ON
 GROUND PAD

J TYP

P TYP
 MAX

H

G

L

M

K

Suggested Layout
 Tolerance to be within $\pm .002$

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

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.

[illegible]

NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" $\pm$.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

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 o these limits are exceeded.