



Features

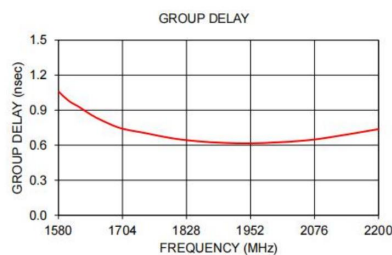
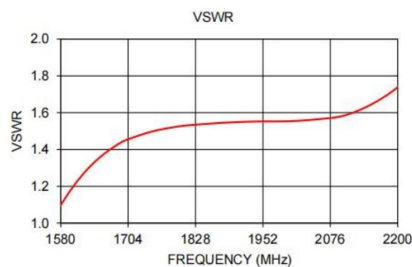
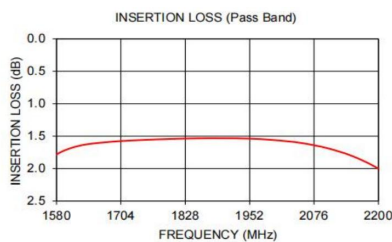
- excellent power handling
- small size
- temperature stable
- LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

Applications

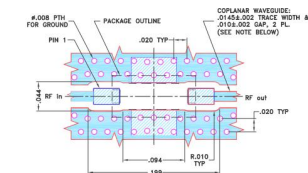
- Harmonic rejection
- Transmitters / Receivers

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	1580-2200	-	1860	-	MHz
	Insertion Loss	1580-2200	-	2.0	3.0	dB
Stop Band, Lower	VSWR	1580-2200	-	1.5	2.5	:1
	Insertion Loss	1300	-	20	-	dB
Stop Band, Upper	VSWR	1300	-	20	-	:1
	Insertion Loss	2600-4800	-	20	-	dB
	VSWR	2600-4800	-	15	-	:1

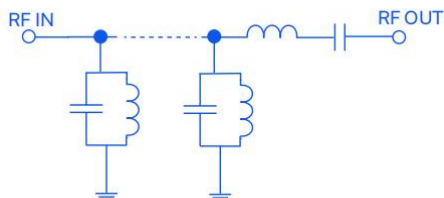


Suggested PCB Layout

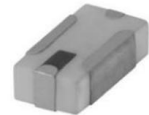


NOTES:
1. TRACE WIDTH PARAMETERS ARE SHOWN FOR ROGER'S RO4003 WITH DIELECTRIC THICKNESS 0.008"±0.0007". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
3. DENOTES PCB COPPER LAYOUT WITH SOLDER COUPLER MASK OVER BARE COPPER.
4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Functional Schematic



JY-BFCN-1860+



50Ω 1580 to 2200 MHz

Maximum Ratings

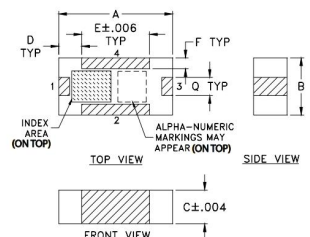
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	2.5W .at 25°C

*Passband rating, derate linearly to 0.7W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

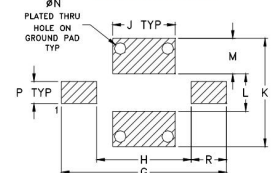
Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



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