

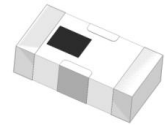
Features

- Good rejection
- Small size
- temperature stable
- LTCC construction with great moisture resistance, corrosion resistance, and high reliability

Applications

- Back Haul Radio Systems
- Test and Measurement Equipment

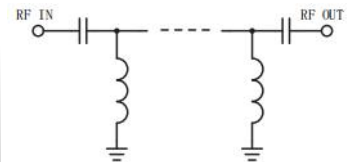
JY-HFCN-2700+



Generic photo used for illustration purposes only

50 Ω 2650 to 6500 MHz

electrical schematic



Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Maximum Ratings

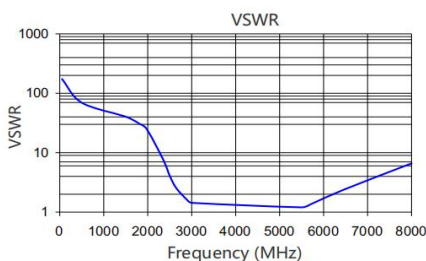
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25°C

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

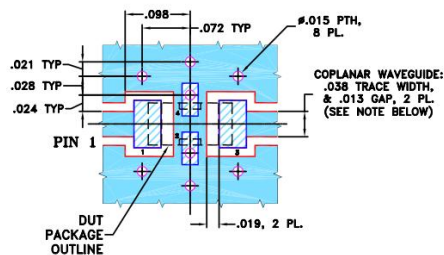
Electrical Specifications¹ at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Stop Band	Rejection Loss	1500	40	-	-	dB
		1800	20	-	-	dB
	Freq.Cut-Off VSWR	2500	-	3.0	-	dB
		1500-1800	-	20	-	:1
Pass Band	Insertion Loss	2650-6500	-	2.0	-	dB
		3000-5700	-	-	1.3	dB
	VSWR	2900-5500	-	1.5	-	:1

1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

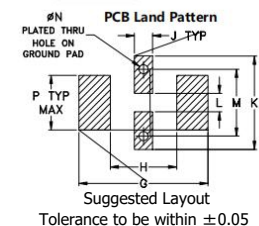
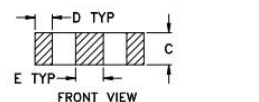
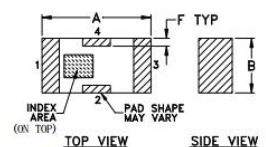


Suggested PCB Layout



- 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

Outline Drawing



Outline Dimensions: Unit (mm)

A	3.20	B	1.60	C	0.94
D	0.51	E	0.81	F	0.23
G	4.29	H	2.21	J	0.61
K	3.10	L	0.61	M	2.21
N	0.30	P	1.8	wt	0.02g