



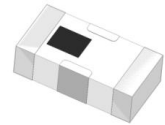
Features

- 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-1000+

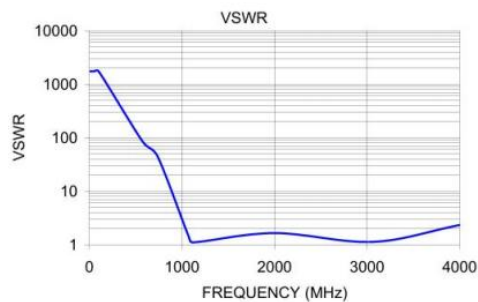


50Ω 1080 to 4000 MHz

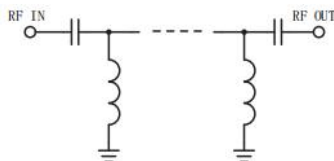
Electrical Specifications¹ at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	1080-4000	-	-	2.0	dB
		1150-3700	-	-	1.4	dB
	VSWR	1080-4000	-	1.5	-	:1
Stop Band	Rejection Loss	DC-570	40	-	-	dB
		DC-740	20	-	-	dB
	Cutoff Frequency	1000	-	3.0	-	dB
	VSWR	DC-740	-	20	-	:1

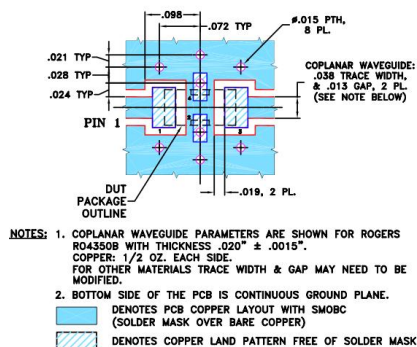
1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.



electrical schematic



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

Pin Connections

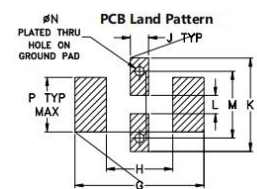
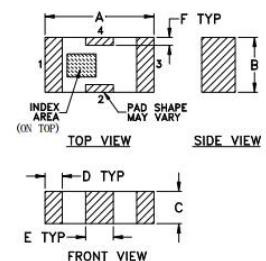
RF IN	1
RF OUT	3
GROUND	2,4

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.

Outline Drawing



Suggested Layout
Tolerance to be within ±0.05

Outline Dimensions: Unit (mm)

A	3.20	B	1.60	C	0.95
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