

Features

- Good rejection, 38 dB typ.
- Tiny size, 0603 (0.063" X 0.032" X 0.024")
- Good power handling, 2.5W

Applications

- Test and Measurement Equipment
- EW, Radar and ECM Defense Systems
- Back Haul Radio Systems

JY-HFCW-133+



50Ω 14200 to 20500 MHz

Electrical Specifications at 25°C

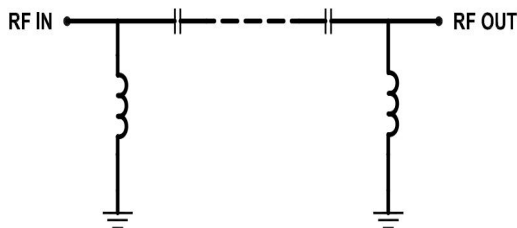
Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
StopBand	Rejection Loss	DC-8500	28	34	-	dB
		8500-10200	24	38	-	dB
	Freq. Cut-Off	13300	-	3	-	dB
Pass Band	Insertion Loss	14200-16500	-	2.5	-	dB
		16500-19500	-	1.1	1.9	dB
		19500-20500	-	1.2	-	dB
	Return Loss	14200-16500	-	8	-	dB
		16500-19500	-	10	-	dB
		19500-20500	-	8	-	dB

Maximum Ratings

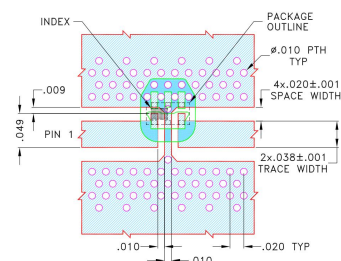
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	2.5W at 25°C

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

electrical schematic



Suggested PCB Layout

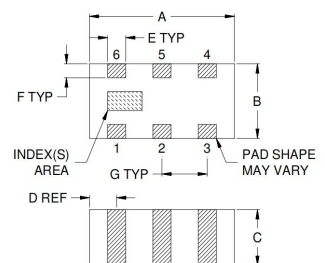


NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (RO3003) WITH DIELECTRIC THICKNESS: 0.008±0.001 COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
■ DENOTES PCB COPPER PATTERN WITH SOLDER (SOLDER MASK OVER BARE COPPER)
■ DENOTES PCB COPPER PATTERN FREE OF SOLDERMASK

Pin Connections

INPUT	1
OUTPUT	3
GROUND	2,4,5,6

Outline Drawing



Suggested Layout
Tolerance to be within ±0.02

Outline Dimensions: Unit (mm)

A	1.60	B	0.80	C	0.60
D	0.30	E	0.20	F	0.15
G	0.50	wt	0.005g		

