



Features

- Small size
- Temperature stable
- LTCC construction
- Good power handling.

Applications

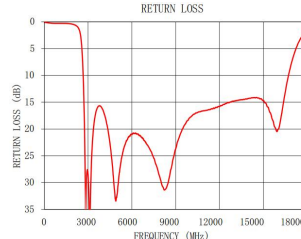
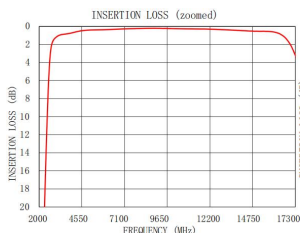
- Transmitters / Receivers
- Test and measurements
- Military applications
- Telecommunications and broadband wireless systems

Electrical Specifications at 25° C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Passband	Insertion Loss	2900 - 3100	—	2.0	—
		3100 - 3500	—	1.4	2.1
		3500 - 14000	—	1.0	1.6
		14000 - 16000	—	1.0	—
Stopband	Return Loss	2900 - 16000	—	14	—
		DC - 1000	30	36	—
	Rejection Loss	1000 - 3000	28	34	—
Stopband	Freq. Cut-Off	2750	—	3.0	—
		2750	—	3.0	—

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
10	70.91	0.11
100	56.20	0.13
500	43.01	0.26
1000	37.43	0.29
2000	40.88	0.49
2190	30.96	0.73
2320	20.54	1.08
2670	3.11	10.46
2700	2.61	13.08
2750	2.07	18.90
2900	1.42	29.13
3000	1.23	28.64
3100	1.09	38.88
3500	0.87	17.34
4000	0.71	16.34
10000	0.25	17.81
14000	0.46	14.30
16000	0.62	20.12
17500	4.36	3.54
18000	8.66	1.70



JY-HFCG-2750+

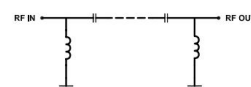


50Ω 2900 to 16000 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	4W max. at 25°C
Permanent damage may occur if any of these limits are exceeded.	

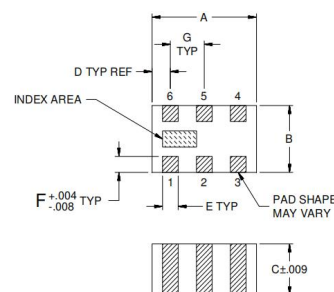
Electrical Schematic



Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4,5,6

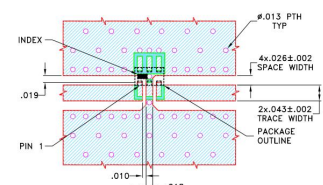
Outline Drawing



Outline Dimensions: Unit (mm)

A	2.00	B	1.25	C	0.95
D	0.35	E	0.30	F	0.30
G	0.65	H	wt		0.008g

Suggested PCB Layout



NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (R04350B) WITH DIELECTRIC THICKNESS .0028-0.015, 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. INDEXED PCB COPPER PATTERN WITH SMD/SOLDER MASK OVER BARE COPPER.
4. DENOTES PCB COPPER PATTERN FREE OF SOLDERMASK