

Features

- Low insertion loss
- Good matching
- Small size (0.25" X 0.25" X 0.10")

Applications

- Radio navigation satellite
- Space research

JY-THP-1050+



50Ω 1050 to 4000 MHz

Electrical Specifications at 25°C

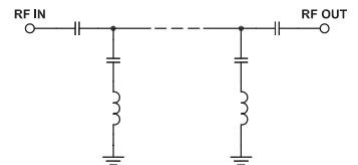
Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Stop Band	Rejection Loss	DC-F1	DC-620	20	30	-	dB
	VSWR	DC-F1	DC-620	-	20	-	:1
Pass Band	Insertion Loss	F2-F3	1050-4000	-	0.6	2.0	dB
	VSWR	F2-F3	1050-4000	-	1.2	1.67	:1

Typical Performance Data

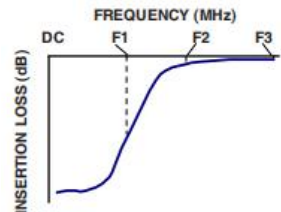
(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	60.15	434.30
620	30.10	51.10
710	15.63	23.81
770	8.31	10.19
810	4.75	5.30
840	2.97	3.40
915	1.02	1.66
1050	0.46	1.17
1150	0.37	1.16
1300	0.33	1.22
1550	0.31	1.30
1620	0.30	1.31
1830	0.29	1.31
2000	0.28	1.30
2220	0.26	1.27
2500	0.25	1.24
2860	0.23	1.19
3100	0.23	1.16
3600	0.22	1.10
4000	0.23	1.04

Functional Schematic



Typical Frequency Response

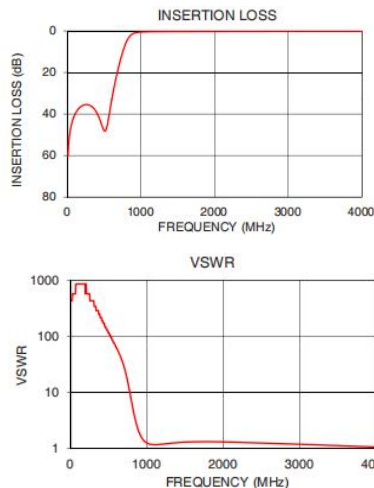
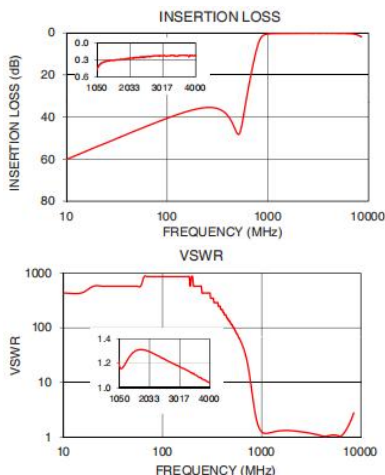


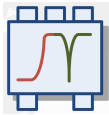
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5 W max. at 25°C
Permanent damage may occur if any of these limits are exceeded.	

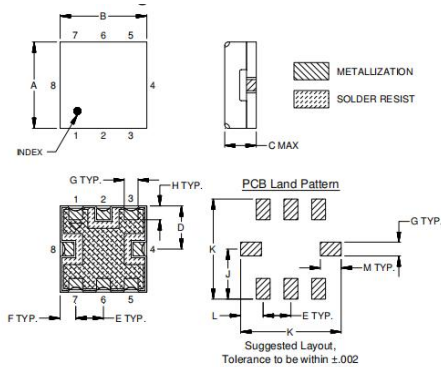
Pin Connections

RF IN	8
RF OUT	4
GROUND	1,2,3,5,6,7





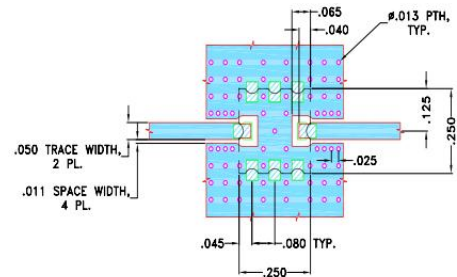
Outline Drawing



Outline Dimensions: Unit (mm)

A	6.35	B	6.35	C	2.54
D	3.18	E	2.03	F	1.14
G	1.02	H	1.02	J	3.68
K	7.37	L	1.65	M	1.52
wt		0.25			

Suggested PCB Layout



NOTES:

- TRACE WIDTH IS SHOWN FOR OAK (OAK-602) WITH DIELECTRIC THICKNESS $.022 \pm .0015$ ". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
- 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 SOLDERMASK