

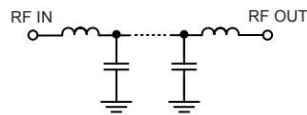
Features

- High rejection
- Sharp insertion loss roll-off
- Ultra miniature surface mount package

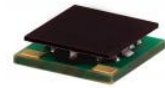
Applications

- Wireless communications
- Receivers / Transformers
- Lab use

Functional Schematic



JY-ULP-320+



50Ω DC to 320 MHz

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-320	-	1.5	2.0	dB
	Freq. Cut-Off	345	-	3.0	-	dB
	VSWR	DC-320	-	1.4	-	:1
Stop Band	Insertion Loss	440-700	20	27	-	dB
		700-1600	40	47	-	dB
	VSWR	440-1600	-	20	-	:1

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.11	1.02	1	2.42
10	0.13	1.03	2	2.25
100	0.31	1.04	5	2.10
150	0.43	1.13	10	2.09
320	1.26	1.17	50	2.08
345	2.92	2.14	80	2.12
346	3.10	2.27	100	2.16
375	12.67	10.73	120	2.19
395	20.88	17.81	140	2.28
416	30.08	23.24	160	2.35
440	44.90	28.17	180	2.45
450	55.27	29.97	200	2.57
475	44.06	34.32	210	2.65
510	41.61	40.34	230	2.86
600	43.55	55.67	250	3.14
700	46.26	73.86	270	3.49
1000	49.86	135.66	300	4.23
1250	50.81	184.02	310	4.69
1500	49.99	220.58	318	5.23
1600	48.82	227.43	320	5.40

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

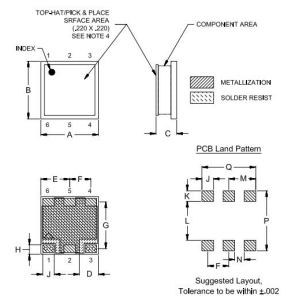
RF Power Input* 1.6 W Max. @ 25°C

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

Pin Connections

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

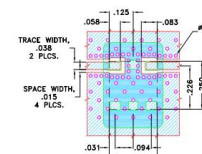
Outline Drawing



Outline Dimensions: Unit (mm)

A	6.35	J	1.27
B	6.35	K	1.17
C	2.10	L	4.27
D	1.90	M	2.97
E	3.18	N	1.07
F	2.34	P	6.60
G	5.11	Q	5.94
H	1.04	WT	0.25g

Suggested PCB Layout



- NOTES:
1. TRACE WIDTH IS SHOWN FOR ROGERS (R04350B) WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH 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 SOLDERMASK

