Surface Mount

Bandpass Filter

50Ω 500 to 700 MHz

Features

- Sharp roll-off
- High rejection, 50 dB typical
- Shielded case
- Aqueous washable

Applications

- Broad band wireless 4G system (UHF Wimax)
- Harmonic rejection
- Transmitters / receivers

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1W max.

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

Pad Connections

INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7,9,10,11,12,13,14

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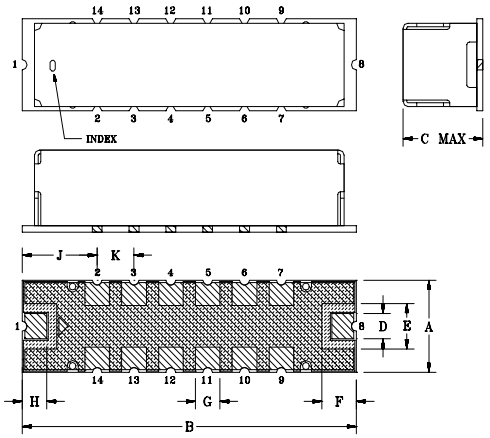
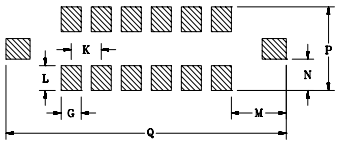
Outline Drawing



PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

METALLIZATION

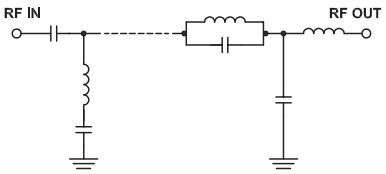
SOLDER RESIST

Outline Dimensions (inch / mm)

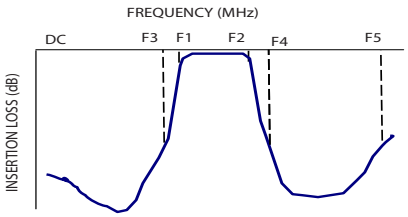
A	B	C	D	E	F	G	H
.365	1.360	.35	.100	.180	.140	.100	.100
9.27	34.54	8.89	2.54	4.57	3.56	2.54	2.54

J	K	L	M	N	P	Q	wt
.305	.150	.120	.275	.152	.405	1.400	grams
7.75	3.81	3.05	6.99	3.86	10.29	35.56	4.0

Functional Schematic



Typical Frequency Response

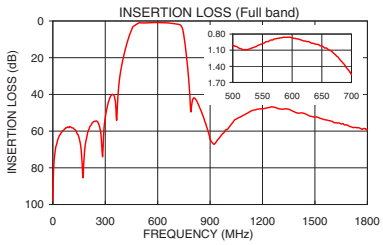


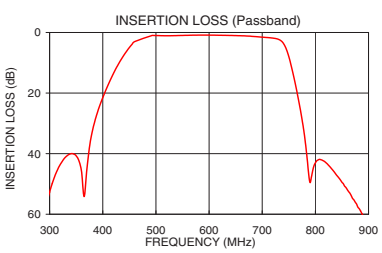
Electrical Specifications at 25°C

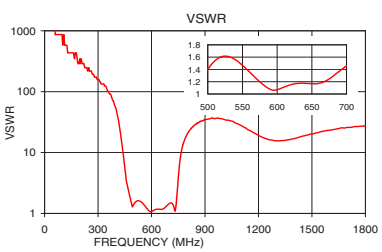
Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	—	600	—	MHz
	Insertion Loss	F1-F2	500-700	—	1.6	2.5	dB
	VSWR	F1-F2	500-700	—	1.6	2.2	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-380	20	32	—	dB
	VSWR	DC-F3	DC-380	—	14	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	795-1800	20	36	—	dB
	VSWR	F4-F5	795-1800	—	13	—	:1

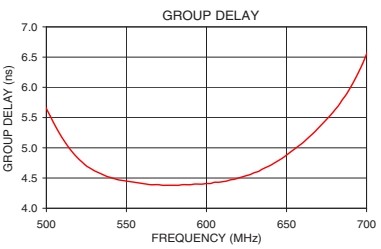
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
0.5	97.89	5790.59	500.0	5.65
150.0	63.66	434.30	510.0	5.16
300.0	52.69	157.93	520.0	4.82
380.0	32.96	75.53	530.0	4.62
402.5	20.44	49.64	540.0	4.51
430.0	10.28	16.89	550.0	4.45
450.0	4.99	5.70	560.0	4.41
460.0	3.01	3.27	570.0	4.39
500.0	1.01	1.40	580.0	4.38
600.0	0.87	1.07	600.0	4.41
700.0	1.55	1.45	610.0	4.44
740.0	3.63	1.61	620.0	4.50
750.0	7.97	3.76	630.0	4.59
760.0	15.14	7.53	640.0	4.71
780.0	34.74	14.50	650.0	4.88
795.0	45.55	18.70	660.0	5.08
890.0	60.57	33.42	670.0	5.33
1000.0	58.98	35.46	680.0	5.62
1500.0	52.38	20.22	690.0	6.00
1800.0	59.23	27.59	700.0	6.55









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