CBP-1062C+

 50Ω 960 to 1164 MHz

The Big Deal

- Excellent Rejection
- Low passband Insertion Loss
- Miniature shielded package



CASE STYLE: MP1766

Product Overview

CBP-1062C+ is a ceramic-coaxial-resonator based bandpass filter in a shielded package fabricated using SMT technology. This filter offers outstanding close in rejection, low insertion loss and high power handling for use in aviation, mobile radio, broadband and fixed wireless.

Key Features

Feature	Advantages
High Selectivity	The CBP-1062C+ filter incorporates High-Q ceramic resonators that enables sharp rejection near passband.
Low Passband VSWR	This filter maintains typical VSWR over passband frequency range making this filter easier to integrate into receiver and transmitter RF chains with less concerns for in band frequency ripple.
Rugged construction	The CBP-1062C+ has been qualified over wide range of thermal, mechanical and environmental conditions including withstanding the stress of extensive solder reflow cycles.

Notes
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Bandpass Filter

50Ω 960 to 1164 MHz

CBP-1062C+



CASE STYLE: MP1766 PRICE: \$26.95 ea. QTY (1-9)

20

20

Тур.

1062

0.6

1.3

29

20

30

Max.

2

Unit

MHz

dB

:1

dB

:1

dB

:1

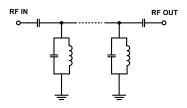
Features

- · Low Insertion loss
- High selectivity
- Miniature shielded package

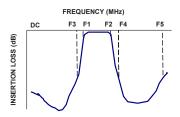
Applications

- Traffic collision avoidance system (TCAS)
- · Aeronautical radio navigation
- · Fixed satellite
- Radio astronomy
- · Radar and navigation system

Functional Schematic



Typical Frequency Response



+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Stop Band, Upper Insertion Loss VSWR F4-F5 F4-F5 Maximum Ratings

VSWR

VSWR

Center Frequency

Insertion Loss

Insertion Loss

Parameter

Pass Band

Stop Band, Lower

Operating Temperature

Storage Temperature

RF Power Input 5W
Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

Electrical Specifications at 25°C

F1-F2

F1-F2

DC-F3

-40°C to 85°C

-55°C to 100°C

Frequency (MHz)

960-1164

960-1164

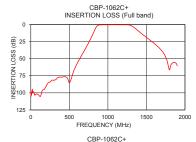
DC-735

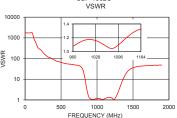
DC-735

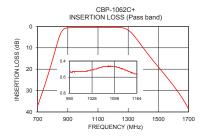
1620-1900

1620-1900

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	98.71	1737.18	960	2.97
625	52.13	54.29	970	2.86
735	30.01	46.96	982	2.74
800	15.30	29.96	992	2.65
830	7.91	12.01	1000	2.59
850	3.73	4.77	1023	2.46
875	1.18	1.80	1040	2.39
960	0.54	1.08	1052	2.34
1000	0.53	1.17	1062	2.31
1062	0.47	1.07	1079	2.27
1120	0.50	1.20	1084	2.25
1145	0.54	1.29	1099	2.21
1164	0.56	1.32	1105	2.20
1305	2.00	3.05	1118	2.18
1350	5.36	7.94	1126	2.15
1415	11.46	21.46	1139	2.13
1535	21.94	38.61	1145	2.12
1620	29.59	43.44	1150	2.11
1790	63.87	46.96	1155	2.10
1900	60.55	48.26	1164	2.10









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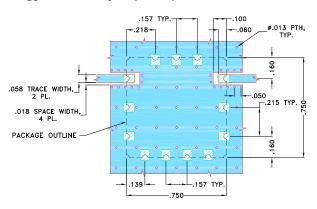
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Pad Connections

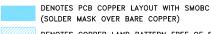
INPUT	1
OUTPUT	10
GROUND	2,3,4,5,6,7,8,9,11,12,13

Demo Board MCL P/N: TB-684+ Suggested PCB Layout (PL-373)



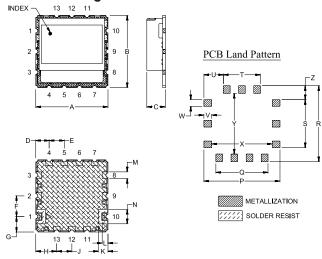
NOTES:

- TRACE WIDTH IS SHOWN FOR OAK (OAK-602) WITH DIELECTRIC THICKNESS
 .022"±.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 COPPER LAND PATTERN FREE OF SOLDERMASK

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J	K	L	M	N
. 750	. 750	. 210	. 139	.157	. 215	. 160	. 218	. 157	. 100	.060	.069	. 149
19.05	19.05	5.33	3.53	3.99	5.46	4.06	5.54	3.99	2.54	1.52	1.75	3.78
P . 790 20.07	Q . 541 13.74	R . 790 20.07	S . 499 12.67	T . 384 9.75	. 203 5.16	.080	.069	. 630	. 630	Z . 145 3.68		wt, grams 4.6

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