CBP-A1060C+

 50Ω 1015 to 1105 MHz

The Big Deal

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



Product Overview

CBP-A1060C+ 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-A1060C+ filter incorporates High-Q ceramic resonators that enables sharp rejection near passband.
Low Passband VSWR	This filter maintains typical VSWR over a narrow 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-A1060C+ has been qualified over wide range of thermal, mechanical and environmental conditions including withstanding the stress of extensive solder reflow cycles.

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Bandpass Filter

 50Ω 1015 to 1105 MHz

CBP-A1060C+



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

20

20

Тур.

1060

0.7

1.3

30

20

29

Max.

2

Unit

MHz

dB

:1

dB

:1

dB

:1

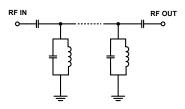
Features

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

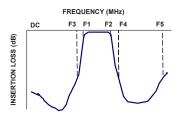
Applications

- 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

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

Center Frequency

Insertion Loss

Insertion Loss

VSWR

VSWR

Parameter

Pass Band

Stop Band, Lower

Operating Temperature

Storage Temperature

RF Power Input 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

5W

Frequency (MHz)

1015-1105

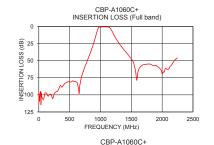
1015-1105

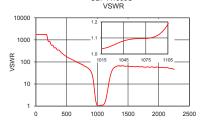
DC-865

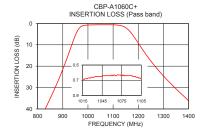
DC-865

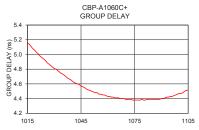
1350-2250

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	112.60	1737.18	1015	5.16
760	56.05	75.53	1019	5.06
865	31.24	46.96	1023	4.96
920	15.22	24.14	1028	4.85
940	8.61	11.24	1034	4.74
956	4.01	4.48	1039	4.66
967	2.05	2.43	1042	4.61
983	0.98	1.35	1047	4.55
1015	0.69	1.03	1050	4.51
1060	0.63	1.09	1055	4.46
1088	0.64	1.11	1060	4.43
1105	0.68	1.19	1065	4.41
1144	1.57	2.28	1070	4.39
1162	3.15	4.15	1075	4.38
1185	6.55	9.96	1080	4.38
1220	12.67	28.49	1085	4.39
1310	25.80	62.05	1090	4.40
1350	30.56	66.82	1095	4.43
1560	61.63	62.05	1100	4.47
2250	45.82	45.72	1105	4.52









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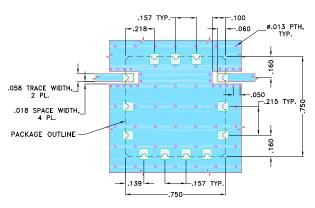
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Pad Connections

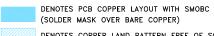
INPUT	1
OUTPUT	10
GROUND	2,3,4,5,6,7,8,9,11,12,13

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



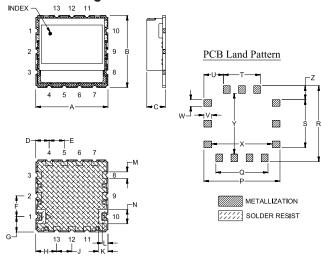
NOTES:

- 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 2.03	.069 1.75	. 630 16.00	. 630 16.00	Z . 145 3.68		wt, grams 4.6

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