CBP-1062C+

 50Ω 960 to 1164 MHz

The Big Deal

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



Generic photo used for illustration purposes only 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.

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Bandpass Filter

 50Ω 960 to 1164 MHz

CBP-1062C+



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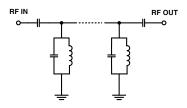
Features

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

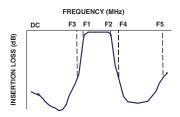
Applications

- 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

Electrical Specifications at 25°C

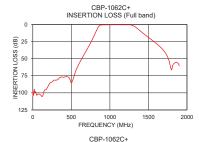
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	_	_	1062	_	MHz
Pass Band	Insertion Loss	F1-F2	960-1164	_	0.6	2	dB
	VSWR	F1-F2	960-1164	_	1.3	_	:1
Cton Bond Lawer	Insertion Loss	DC-F3	DC-735	20	29	_	dB
Stop Band, Lower	VSWR	DC-F3	DC-735	_	20	_	:1
Stop Band, Upper	Insertion Loss	F4-F5	1620-1900	20	30	_	dB
Stop Bariu, Opper	VSWR	F4-F5	1620-1900	_	20	_	:1

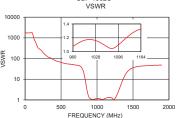
Maximum Ratings					
Operating Temperature	-40°C to 85°C				
Storage Temperature	-55°C to 100°C				
RF Power Input	5W				

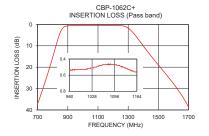
Permanent damage may occur if any of these limits are exceeded.

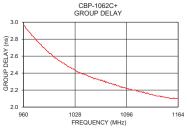
Typical Performance Data at 25°C

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









Notes
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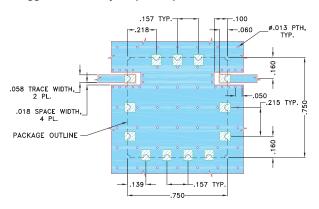
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Pad Connections

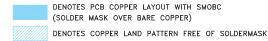
INPUT	1
OUTPUT	10
GROUND	2,3,4,5,6,7,8,9,11,12,13

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

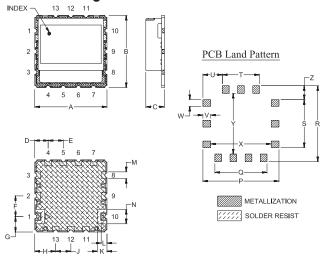


NOTES:

- 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.



Outline Drawing



Outline Dimensions (inch)

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

Note: Please refer to case style drawing for details

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