

Surface Mount Bandpass Filter

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.

Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



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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

Electrical Specifications at 25°C

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

Maximum Ratings

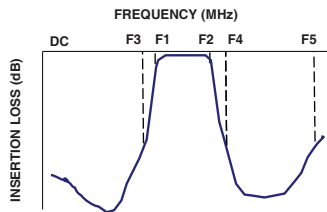
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	5W

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

Functional Schematic



Typical Frequency Response

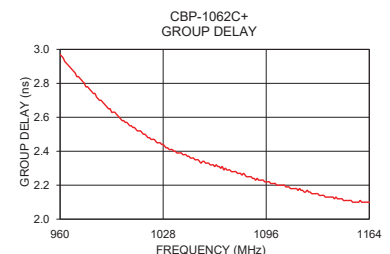
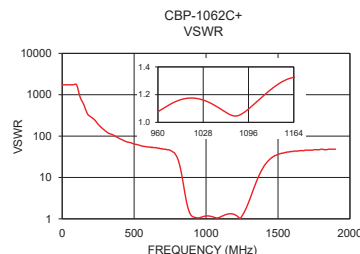
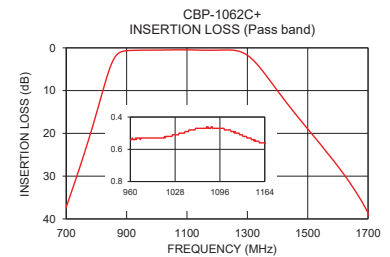
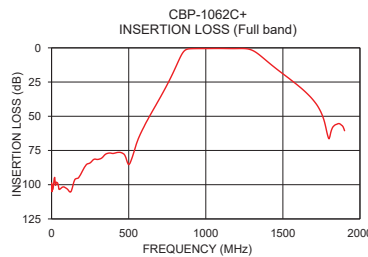


Typical Performance Data at 25°C

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

+RoHS Compliant

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



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