CBP-1034C+

 50Ω 978 to 1090 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-1034C+ 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-1034C+ 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-1034C+ has been qualified over wide range of thermal, mechanical and environmental conditions including withstanding the stress of extensive solder reflow cycles.				

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.

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Bandpass Filter

 50Ω 978 to 1090 MHz

CBP-1034C+



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CASE STYLE: MP1766

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit			
Pass Band	Center Frequency	_	_	_	1034	_	MHz			
	Insertion Loss	F1-F2	978-1090	_	0.6	2	dB			
	VSWR	F1-F2	978-1090	_	1.2	_	:1			
Stop Band, Lower	Insertion Loss	DC-F3	DC-790	20	30	_	dB			
	VSWR	DC-F3	DC-790	_	20	_	:1			
Stop Band, Upper	Insertion Loss	F4-F5	1400-2000	20	30	_	dB			
	VSWR	F4-F5	1400-2000	_	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.

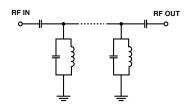
Features

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

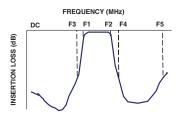
Applications

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

Functional Schematic



Typical Frequency Response

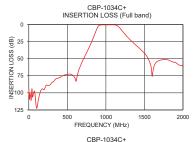


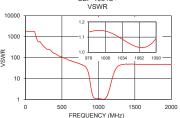
+RoHS Compliant

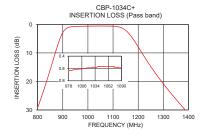
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

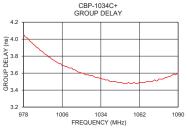
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1 660	94.35 63.48	1737.18 64.35	978 984	4.06 3.96
790	31.74	43.44	989	3.89
850	15.91	26.33	992	3.85
875 890	8.62 4.76	11.93	996	3.79
905	4.76 2.22	5.72 2.75	1000 1008	3.75 3.68
920	1.14	1.65	1015	3.64
978	0.64	1.13	1020	3.60
1034	0.58	1.09	1025	3.58
1090 1145	0.59 1.75	1.09 2.60	1030 1034	3.55 3.54
1170	3.95	5.49	1034	3.51
1190	6.49	10.13	1045	3.50
1230	12.09	25.19	1050	3.48
1330	24.12	48.26	1055	3.48
1550 1600	50.44 75.91	48.26 48.26	1060 1070	3.48 3.50
1900	55.39	48.26	1080	3.54
2000	61.65	46.96	1090	3.60









- Notes
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