Bandpass Filter

CBP-893C+

870 to 915 MHz 50Ω

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-893C+ 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, Public cellular network, GSM and Cellular services.

Key Features

Feature	Advantages			
High Selectivity	The CBP-893C+ filter incorporates High-Q ceramic resonators that enables sharp rejection near passband.			
Low Passband VSWR	This filter maintains typical VSWR over a wide 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-893C+ 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 870 to 915 MHz

CBP-893C+



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CASE STYLE: MP1766

Тур.

892.5

0.8

1.3

30

20

30

20

20

Max.

1.78

Unit

MHz

dB

:1

dB

:1

dB

:1

· Low Insertion loss

- · High selectivity

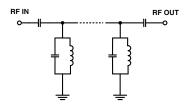
Features

• Miniature shielded package

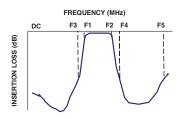
Applications

- Aviation
- · Public cellular network, GSM
- · Cellular services
- · Defense systems

Functional Schematic



Typical Frequency Response



+RoHS Compliant

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

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

Parameter

Pass Band

Stop Band, Lower

Stop Band, Upper

Center Frequency

Insertion Loss

Insertion Loss

Insertion Loss

VSWR

VSWR

VSWR

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

DC-F3

F4-F5

Frequency (MHz)

870-915

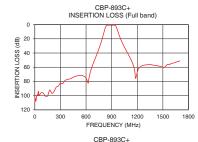
870-915

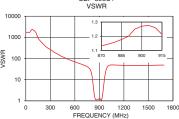
DC-750

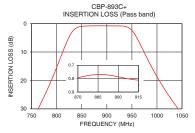
DC-750

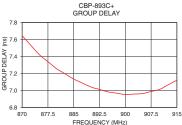
1050-1700

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	103.01	1737.18	870	7.64
700	50.00	50.72	872	7.55
750	34.41	41.53	875	7.42
760	31.03	39.22	877	7.36
785	21.74	31.43	880	7.26
800	15.41	22.87	882	7.21
820	6.51	7.66	885	7.13
830	3.10	3.42	887	7.10
840	1.44	1.77	890	7.04
870	0.79	1.13	892	7.02
893	0.77	1.23	893	7.01
915	0.81	1.21	895	6.98
945	1.62	2.88	897	6.97
955	3.57	6.25	900	6.95
965	6.71	12.79	903	6.96
990	15.49	35.06	905	6.96
1005	20.17	43.28	907	6.98
1050	31.82	50.04	910	7.01
1400	57.15	46.93	912	7.06
1700	51.07	49.01	915	7.12









Notes
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