CBP-1645J+

 50Ω 1622 to 1668 MHz

The Big Deal

- Good Insertion Loss
- Low VSWR
- Miniature shielded package



Generic photo used for illustration purposes only CASE STYLE: MQ1770

Product Overview

CBP-1645J+ is a ceramic coaxial resonator based bandpass filter in a shielded package fabricated using SMT technology. This filter has narrow passband and offers low insertion loss, low VSWR and high power handling for use in satellite communication.

Key Features

Feature	Advantages				
High Q	The CBP-1645J+ filter incorporates High-Q ceramic resonators that enables low insertion loss.				
Low VSWR	This filter maintains typical VSWR over passband frequency range making this filter easier to integrate between other components.				
Rugged construction	The CBP-1645J+ 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.

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Bandpass Filter

 50Ω 1622 to 1668 MHz

CBP-1645J+



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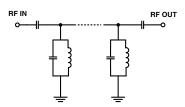
Features

- · Good Insertion loss
- Low VSWR
- · Miniature shielded package

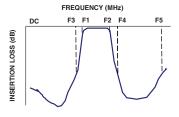
Applications

- · Satellite communication
- · Radio astronomy

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		
Pass Band	Center Frequency	_	_	_	1645	_	MHz		
	Insertion Loss VSWR	F1-F2 F1-F2	1622-1668 1622-1668	_	1.3 1.5	2.0 2.32	dB :1		
Stop Band, Lower	Insertion Loss VSWR	DC-F3 DC-F3	DC-1520 DC-1520	20 —	27.7 20	_	dB :1		
Stop Band, Upper	Insertion Loss VSWR	F4-F5 F4-F5	1820-4000 1820-4000	20 —	27.1 20	_	dB :1		

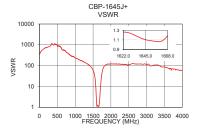
Maximum Ratings					
Operating Temperature	-40°C to 85°C				
Storage Temperature	-55°C to 100°C				
RF Power Input	8 W				

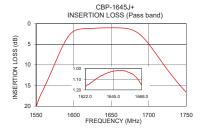
Permanent damage may occur if any of these limits are exceeded.

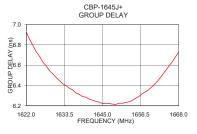
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	100.66	350.26	1622	6.93
100	110.58	593.87	1624	6.80
400	95.75	968.56	1626	6.69
800	75.52	395.09	1628	6.59
1000	67.99	232.74	1630	6.52
1515	30.50	52.78	1632	6.45
1520	29.15	49.53	1636	6.36
1548	20.30	30.47	1638	6.31
1548	20.30	30.47	1640	6.29
1590	3.64	3.32	1642	6.26
1622	1.17	1.26	1644	6.24
1645	1.02	1.11	1646	6.23
1668	1.15	1.19	1650	6.23
1692	3.45	3.45	1654	6.26
1765	20.25	58.70	1658	6.34
1820	27.76	97.31	1660	6.39
1850	30.93	107.47	1662	6.46
2200	65.71	118.55	1664	6.55
3000	37.22	111.45	1666	6.63
4000	38.32	58.17	1668	6.73









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