

High Frequency Ceramic Solutions

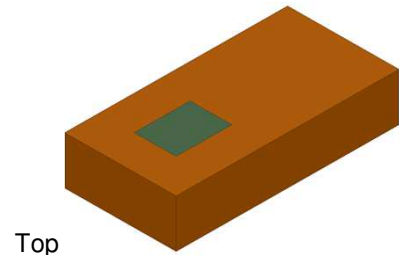
4.7GHz Band Pass Filter, EIA 0603, SMD, Low Loss and High Attenuation

P/N 4700BP14C0600

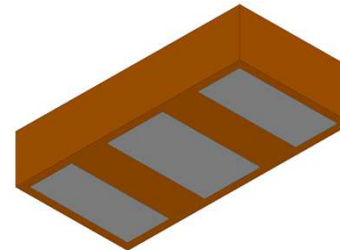
Detail Specification: 6/16/2021

Page 1 of 4

General Specifications	
Part Number	4700BP14C0600
Frequency	4400 - 5000 MHz
Insertion loss (dB)	1.15 typ. (1.5 max.)
Return Loss (dB)	19 typ. (10 min.)
Attenuation (dB)	46 typ. (35 min.) @ .400 - .915GHz 43 typ. (30 min.) @ .925 - 2.80GHz 31 typ. (20 min.) @ 2.485 - 3.6GHz 22 typ. (7 min.) @ 5.85 - 6.1GHz 21 typ. (15 min.) @ 6.1 - 6.98GHz 32 typ. (25 min.) @ 8.8 - 10GHz 39 typ. (20 min.) @13.2 - 15GHz
Power Capacity (W)	3 max. (CW)
Operating Temperature	-40 to +105°C
Reel Quantity (pcs/reel)	4,000
Recommended Storage Conditions and Period for unused Product on T&R	+5 to +35°C Humidity 45 - 75% RH 18 months max.



Top

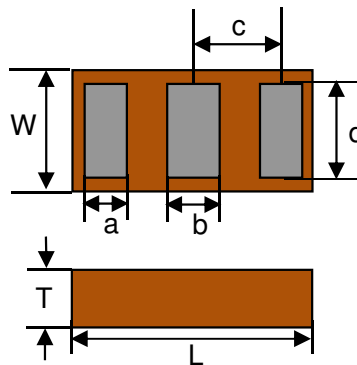


Bottom

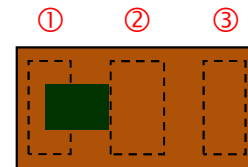
You can download measured s-parameters of this component at: <https://www.johansontechnology.com/band-pass-filters>

Part Number Explanation				
P/N Suffix	Packaging Style	Bulk (loose pcs.)	Suffix = S	e.g. 4700BP14C0600S
		T & R	Suffix = T	e.g. 4700BP14C0600T
	Evaluation Board	50Ω SMA	Suffix = EB1SMA	e.g. 4700BP14C0600-EB1SMA

Mechanical Dimensions		
	In	mm
L	0.063 ± 0.004	1.60 ± 0.10
W	0.031 ± 0.004	0.80 ± 0.10
T	0.014 max.	0.35 max.
a	0.012 ± 0.004	0.30 ± 0.10
b	0.016 ± 0.004	0.40 ± 0.10
c	0.024 ± 0.004	0.60 ± 0.10
d	0.028 ± 0.004	0.70 ± 0.10



Terminal Configuration	
No.	Function
1	IN/OUT
2	GND
3	IN/OUT



Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver. 1.1

<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012, USA • TEL +1.805.389.1166

2021 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

4.7GHz Band Pass Filter, EIA 0603, SMD, Low Loss and High Attenuation

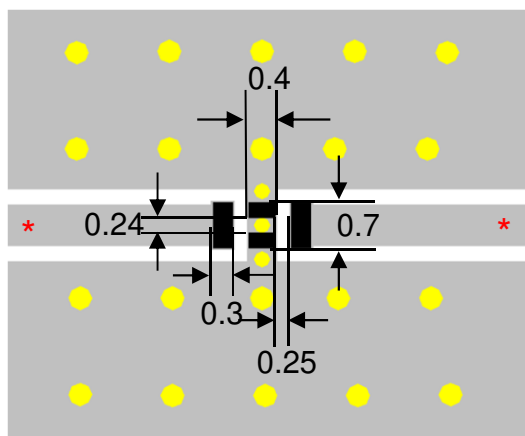
P/N 4700BP14C0600

Detail Specification: 6/16/2021

Page 2 of 4

Mounting Pad Dimensions

Units in mm



■ Solder Resist

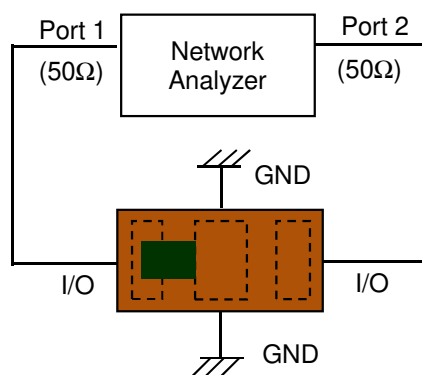
■ Land

● GND Via (ϕ 0.35, 0.23)

*Transmission line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

Would you like the layout? Send us a message at: <https://www.johansontechnology.com/ask-a-question>

Measurement Schematic



Port 1: Filter IN/OUT
Port 2: Filter IN/OUT

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver. 1.1

<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012, USA • TEL +1.805.389.1166

2021 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

4.7GHz Band Pass Filter, EIA 0603, SMD, Low Loss and High Attenuation

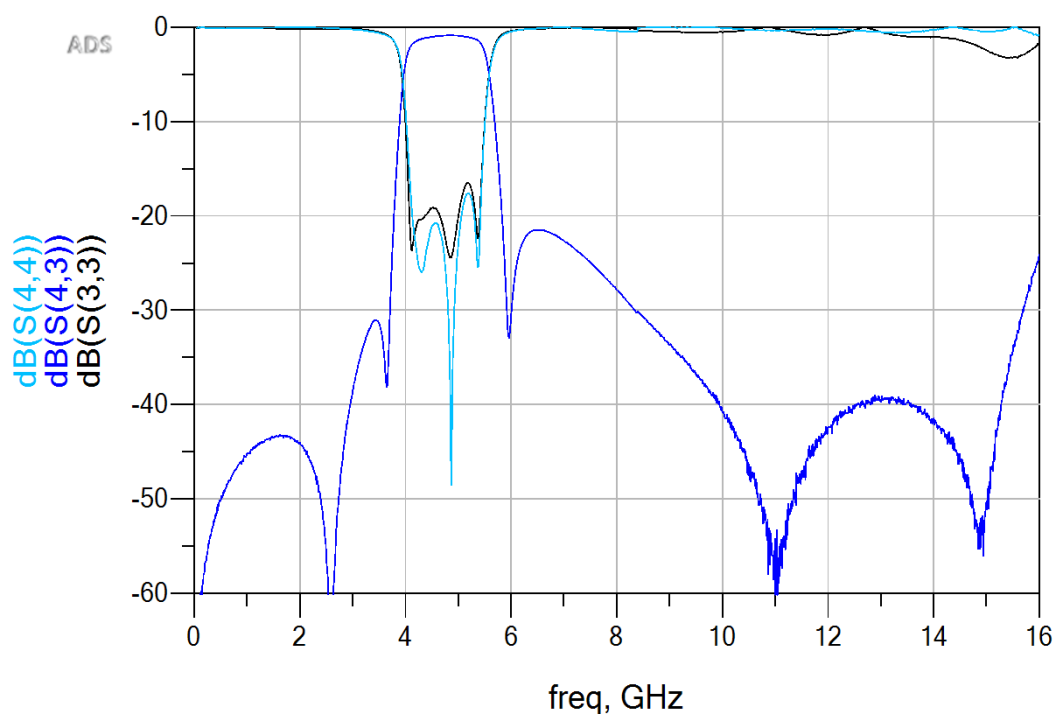
P/N 4700BP14C0600

Detail Specification: 6/16/2021

Page 3 of 4

Typical Electrical Characteristics (T=25°C)

Insertion Loss & Return loss



Do you need the S-parameter file of the above? Send us a message at:
<https://www.johansontechnology.com/ask-a-question>

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver. 1.1

<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012, USA • TEL +1.805.389.1166

2021 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

4.7GHz Band Pass Filter, EIA 0603, SMD, Low Loss and High Attenuation

P/N 4700BP14C0600

Detail Specification: 6/16/2021

Page 4 of 4

Application Notes, Layout Files, and more

<https://www.johansontechnology.com/band-pass-filters>

Packaging information

<https://www.johansontechnology.com/tape-reel-packaging>

Soldering Information

<https://www.johansontechnology.com/ipcsoldering-profile>

MSL Info

<https://www.johansontechnology.com/msl-rating>

Recommended Storage Condition and Max Shelf Life

<https://www.johansontechnology.com/recommended-storage-conditions>

RoHS Compliance

<https://www.johansontechnology.com/rohs-compliance>

Antenna layout and tuning techniques

<https://www.johansontechnology.com/tuning>

Antenna layout review, tuning, and characterization services

<https://www.johansontechnology.com/ipc-antenna-services>

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver. 1.1

<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012, USA • TEL +1.805.389.1166

2021 Johanson Technology, Inc. All Rights Reserved

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Signal Conditioning](#) category:

Click to view products by [Johanson](#) manufacturer:

Other Similar products are found below :

[PD0409J5050S2HF](#) [AFS14A35-1591.50-T3](#) [AFS20A20-1227.60-T3](#) [JP510S](#) [LFB322G45SN1A504](#) [SF2159E](#) [FM-104-PIN](#) [CER0813B](#)
[MAPDCC0005](#) [3A325](#) [BD0810N50100AHF](#) [DC0710J5005AHF](#) [DC2327J5005AHF](#) [X3C19F1-20S](#) [XC3500P-20S](#) [CDBLB455KCAX39-B0](#)
[PD0922J5050D2HF](#) [600S150FTRB](#) [1E1305-3](#) [1F1304-3S](#) [BD1222J50200AHF](#) [BD1722J50100AHF](#) [2450DP39K5400E](#) [BD0810J50150AHF](#)
[BD1722J50200AHF](#) [DS-329-PIN](#) [TP-104-PIN](#) [TP-101-PIN](#) [HH-128-PIN](#) [T-1000-N](#) [JP506S](#) [XC0900P-10S](#) [XC0900B-30S](#) [11305-10](#) [5962-](#)
[9091202MXA](#) [X3C06A4-03S](#) [DSS-333-PIN](#) [PD2425J5050S2HF](#) [B39242B4360P810](#) [B39781B8005P810](#) [B39881B8013P810](#)
[B39791B8039P810](#) [B39771B8035P810](#) [B39741B8012P810](#) [B39212B8033P810](#) [B39162B8636P810](#) [SF2225E](#) [SF2275E](#) [SF2395E](#) [SF2188D](#)