

BF 4532 Series

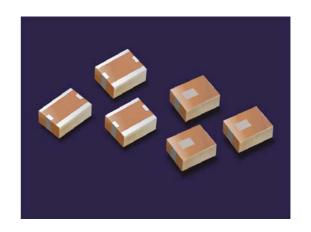
Multilayer Chip Band-Pass Filters

Features

- Ultra small SMD type with low loss at passband and high attenuation at stop-band.
- * RoHS compliant

Applications

❖0.8 ~ 6 GHz wireless communication systems, including DECT/PACS/PHS/GSM/DCS phones, WLAN card, Bluetooth modules, Hyper-LAN, etc.



Specifications

Part Number	Freq. Range (MHz)	Insertion Loss @ BW (dB)	VSWR @ BW	Frequency	Attenuation (dB)
BF4532-	950 ~ 1525	2.8 max.	2.6 max.	100 ~ 480MHz	25 min.
L1R2CAC_	950 ~ 1525	2.0 IIIax.	2.0 IIIax.	1900 ~3050MHz	25 min.

 $\begin{array}{lll} & \text{Q'ty/Reel (pcs)} & : 1,000 \\ & \text{Operating Temperature Range} & : -40 \sim +85\,^{\circ}\text{C} \\ & \text{Storage Temperature Range} & : -40 \sim +85\,^{\circ}\text{C} \\ & \text{Storage Period} & : 12 \text{ months max.*} \\ \end{array}$

*12 months in vacuum sealed bag and 1 week after opened. Please keep unused parts in vacuum sealed bags.

Solder Paste : SAC 305 type is recommended.

Power Capacity : 3W max.

Part Number

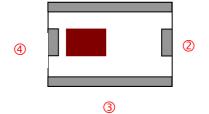
BF 4532 - L 1R2 CAC □ /LF ① ② ③ ④ ⑤ ⑥ ⑦

① Type	BF : Band-Pass Filter	② Dimensions (L × W)	4.5 × 3.2 mm
3 Material Code	L	Frequency Range	1R2=1200MHz
Specification Code	CAC	© Packaging	T: Tape & Reel B: Bulk
Soldering	/LF=lead-free		



Terminal Configuration

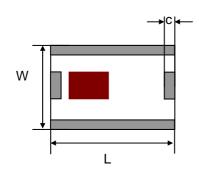
1

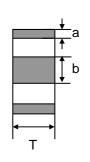


No.	Terminal Name	No.	Terminal Name
1	GND	3	GND
2	OUT	4	IN

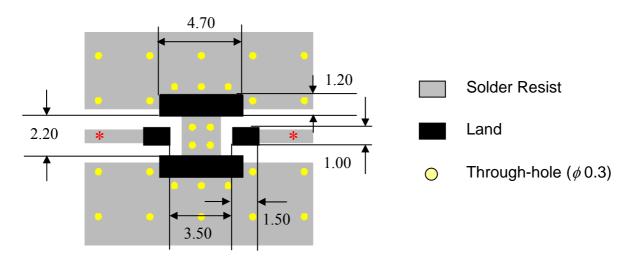
Dimensions and Recommended PC Board Pattern

Unit: mm





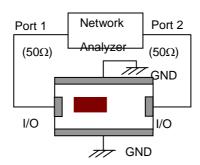
Mark	L	W	Т	а	b	С
Dimensions	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.1	0.4 ± 0.2	0.8 ± 0.2	0.3± 0.15



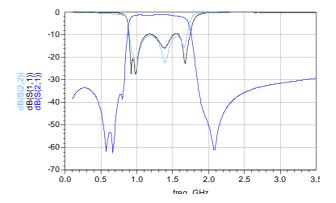
^{*} Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.



Measuring Diagram



Electrical Characteristics (T=25°C)



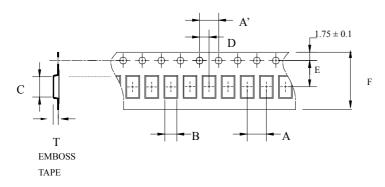
Notes

❖The contents of this data sheet are subject to change without notice. Please confirm the specifications and delivery conditions when placing your order.



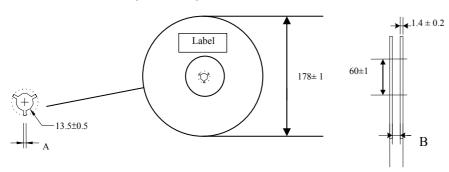
Taping Specifications

❖Tape Dimensions (Unit: mm) & Quantity



Туре	Α	A'	В	С	D	E	F	Т	Quantity/reel	Tape material
4532	8.0±	4.0±	3.66±	4.95±	2.0±	5.5±	12.0±	1.75±	1,000pcs	Plastic
4332	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	1,000pcs	(Embossed)

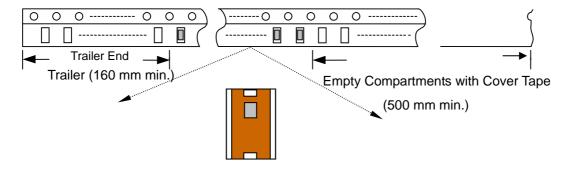
❖Reel Dimensions (Unit: mm)



Label: Customer's Name,
ACX P/N, Q'ty, Date,
ACX Corp.

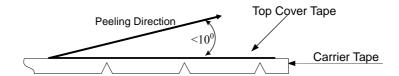
Туре	Α	В	
4532	2.3±0.5	17.0±0.5	

❖Leader and Trailer Tape





❖Peel-off Force



Peel-off force should be in the range of 0.1 - 0.6 N at a peel-off speed of $300\pm10 \text{ mm/min}$.

❖Storage Conditions

- (1) Temperature: $5 \sim 35^{\circ}$ C, relative humidity (RH): $45 \sim 75\%$.
- (2) Non-corrosive environment

Notes

❖The contents of this data sheet are subject to change without notice. Please confirm the specifications and delivery conditions when placing your order.



Mechanical & Environmental Characteristics

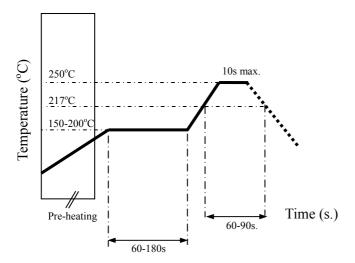
Item Requirements			Procedure			
Solderability	Solderability		1. 2.	Preheat: 120± 5 °C Solder: 245± 5°C for 5± 1 sec		
Soldering strength (Termination Adhesion)	1.	10N minimum	2. 3.			
Deflection (Substrate Bending)	1. 2.	No apparent damage Fulfill the electrical specification	2.	Solder specimen onto test jig (FR4, 0.8mm) using the recommend soldering profile. Apply a bending force of 1mm deflection Pressure Rod 90mm		
Heat/Humidity Resistance	1. 2.	No apparent damage Fulfill the electrical specification after test	1. 2. 3. 4.			
Thermal shock (Temperature Cycle)	1. 2.	No apparent damage Fulfill the electrical specification after test	2. 1	One cycle/step 1: 125 ± 5°C for 30 min step 2: - 40 ± 5°C for 30 min No of cycles: 100 Recovery:1-2 hrs		
Low Temperature Resistance	1. 2.	No apparent damage Fulfill the electrical specification after test	1. 2. 3.	Temperature: -40± 5 °C Duration: 500 ±24hrs Recovery: 1-2hrs		



Soldering Conditions

❖Typical Soldering Profile for Lead-free Process

Reflow Soldering:



Notes

❖The contents of this data sheet are subject to change without notice. Please confirm the specifications and delivery conditions when placing your order.

Advanced Ceramic X Corp.

16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303, Taiwan TEL:886-3-5987008 FAX:886-3-5987001

E-mail: acx@acxc.com.tw

http://www.acxc.com.tw