

BF1608 Series

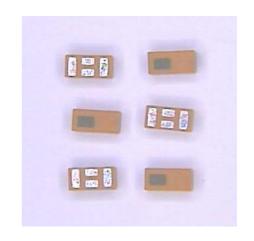
Multilayer Chip Band-Pass Filters

Features

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

Applications

❖1.8-2.0GHz wireless communication systems.



Specifications

Part Number	Frequency Range (MHz)	Insertion Loss @ BW (dB)	VSWR @ BW	Frequency	Attenuation (dB)
DE4.000				1545~1610 MHz	20 min.
BF1608- L1R9NDB	1880~2025	1.75 typ./ 1.9 max.	2 max.	2400~2500 MHz	25 min.
LINONDD_				5150~5850 MHz	25 min.

Q'ty/Reel (pcs) : 4,000

Operating Temperature Range : -40 ~ +85 °C
Storage Temperature Range : -40 ~ +85 °C
Storage Period : -40 ~ +85 °C
12 months max.*

*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 : 3 W max.

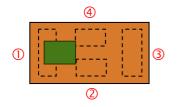
Part Number

<u>BF</u>	<u> 1608</u>	-	L	<u>1R9</u>	<u>NDB</u>		<u>/LF</u>
1	2		3	4	(5)	6	7

① Туре	BF : Band Pass Filter	② Dimensions (L×W)	1.6 × 0.8 mm	
3 Material Code	L	Frequency Range	1R9=1900MHz	
Specification Code	NDB	© Packaging	T: Tape & Reel B: Bulk	
Soldering /LF=lead-free				

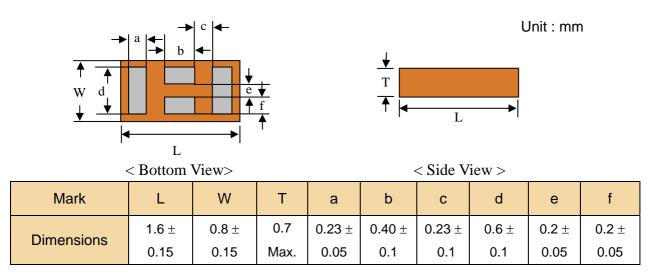


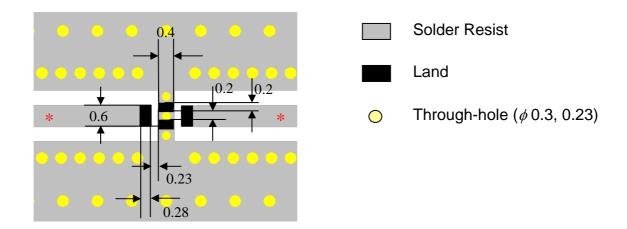
Terminal Configuration



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

Dimensions and Recommended PC Board Pattern

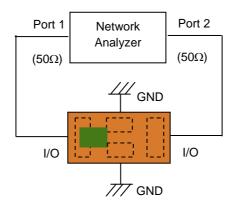




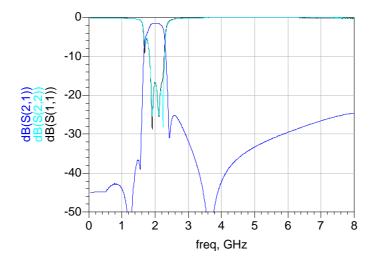
^{*} Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.



Measuring Diagram



Typical Electrical Characteristics (T=25°C)



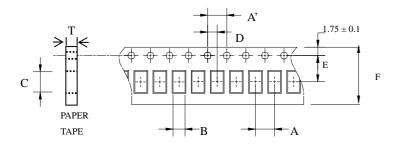
Notes

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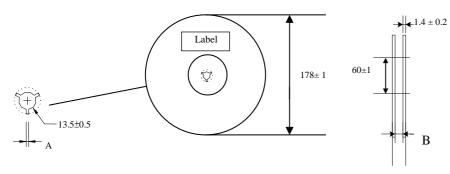
Taping Specifications

❖Tape Dimensions (Unit: mm) & Quantity



Гуре	A	A'	В	С	D	Е	F	Т	Quantity/reel	Tape material
1608	4.0±	4.0±	1.10±	1.92±	2.0±	3.5±	8.0±	0.75±	4,000pcs	Paper
1000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	4,000pcs	гареі

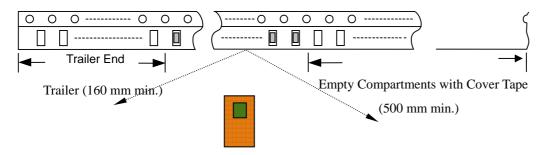
❖Reel Dimensions (Unit: mm)



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

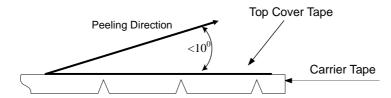
Туре	A	В		
1608	2.3±0.5	9.0±0.3		

❖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 $300\pm10~mm/min$.

❖Storage Conditions

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

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Mechanical & Environmental Characteristics

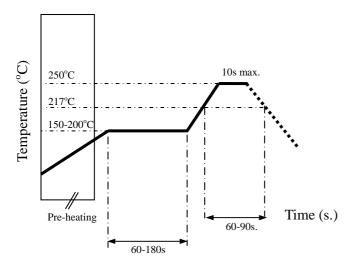
Item	Requirements			Procedure		
	1.	No apparent damage				
Solderability	2.	More than 75% of the terminal	1.	Preheat: 120± 5 °C		
Solderability		electrode shall be covered with	2.	Solder: 245± 5°C for 5± 1 sec		
		new solder				
			1.	Solder specimen onto test jig.		
Soldering strength			2.	Apply push force at 0.5mm/s until		
(Termination Adhesion)	1.	1kg minimum		electrode pads are peeled off or ceramic		
(Tommation / tanddion)				are broken. Pushing force is applied to		
				longitude direction		
			1.	Solder specimen onto test jig (FR4,		
				0.8mm) using the recommend soldering		
				profile.		
			2.	Apply a bending force of 2mm deflection		
				Pressure Rod		
Deflection (Substrate	1. 2.					
Bending)				R230		
				$V \leftarrow \longrightarrow V$		
				90mm		
			1.	Temperature: 85± 2°C		
Heat/Humidity	1.	No apparent damage	2.	Humidity: 90% ~ 95% RH		
Resistance	2.	Fulfill the electrical specification	3.	Duration: 1000±48hrs		
		after test		Recovery: 1-2hrs		
		N	1. (One cycle/step 1: 125 ± 5°C for 30 min		
Thermal shock	1.	No apparent damage		step 2: - 40 ± 5°C for 30 min		
(Temperature Cycle)	2.	Fulfill the electrical specification	2. I	No of cycles:100		
		after test	3. ا	Recovery:1-2 hrs		
Low Tomporations	1.	No apparent damage	1.	Temperature: -40± 5 °C		
Low Temperature Resistance	2.	Fulfill the electrical specification	2.	Duration: 500 ±24hrs		
Nesistative		after test	3.	Recovery: 1-2hrs		



Soldering Conditions

❖Typical Soldering Profile for Lead-free Process

Reflow Soldering:



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