

BTBF Series



Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics (LTCC) for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

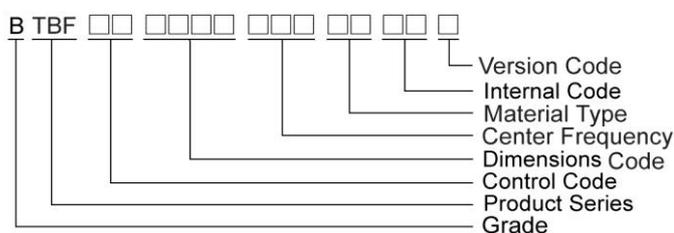
Features

- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss, high attenuation.
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Applications

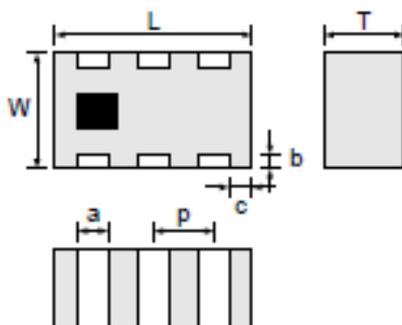
- WLAN ,Home RF, Bluetooth Module, WiMAX Modules, etc.

Product Identification

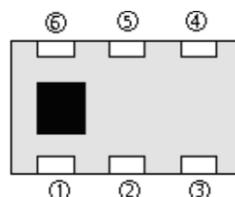


Shapes and Dimensions

BTBF0016082G4S1A20

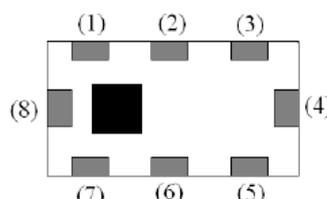
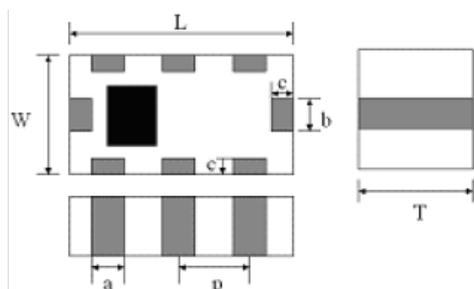


Terminal Configuration



- ① Unbalance Port ② GND ③ Balance Port1
- ④ Balance Port1 ⑤ GND ⑥ GND

BTBF0020123G6H6A10



- ① NC ② DC or NC Port ③ Un-Balance Port ④ GND
- ⑤ Balance Port1 ⑥ GND ⑦ Balance Port ⑧ GND

Dimension in mm

TYPE	L	W	T	a	b	c	p
BTBF0016082G4S1A20	1.6±0.1	0.8±0.1	0.65Max	0.3±0.1	0.2±0.1	0.15±0.1	0.55±0.05
BTBF0020123G6H6A10	2.0±0.2	1.25±0.2	1.0±0.1	0.3 ^{+0.1} _{-0.15}	0.3 ^{+0.1} _{-0.15}	0.2±0.15	0.65±0.15

Low Temperature Cofired Ceramic - BTBF Series

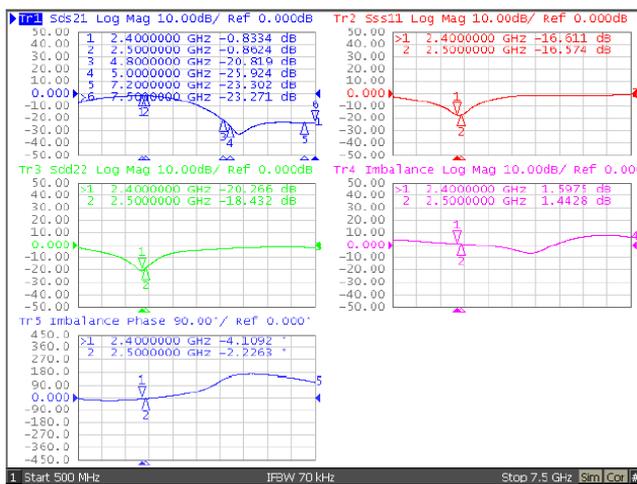
Electrical Characteristics

Part Number	Pass Band (MHz)	Impedance (Ω)	Insertion Loss (dB)Max	Return Loss (dB)Min	Ripple (dB)Max	Balance Port		Attenuation	Application
						Amplitude	Phase Difference		
BTBF0016082G4S1A20	2400~2500	50	1.75	10	1	2 dB Max	180 \pm 10 $^\circ$	19dB Min. @ 4800~5000 MHz 19dB Min. @ 7200~7500 MHz	WLAN/BT

- Operating temperature range $-40^\circ\text{C} \sim 85^\circ\text{C}$

Test Instruments : Agilent E5071C Network Analyzer

BTBF0016082G4S1A20



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Low Temperature Cofired Ceramic - BTBF Series

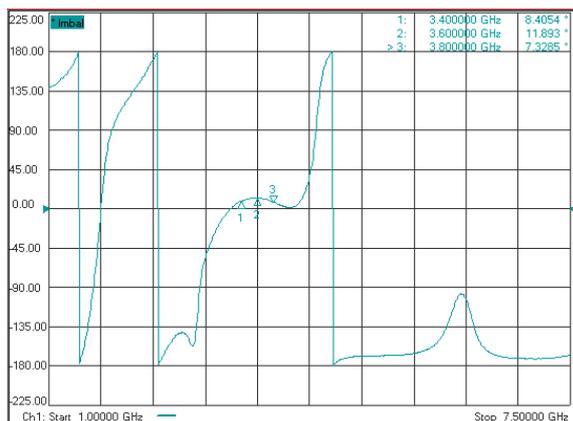
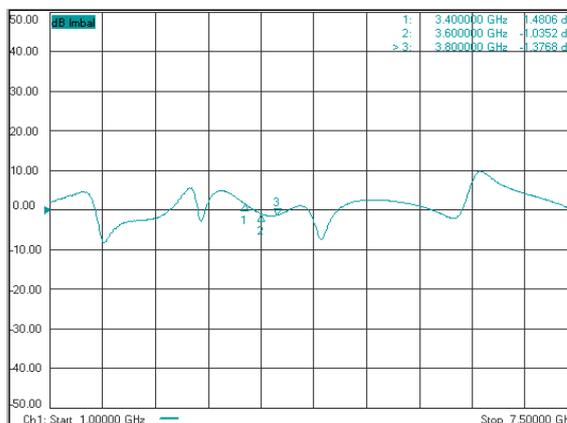
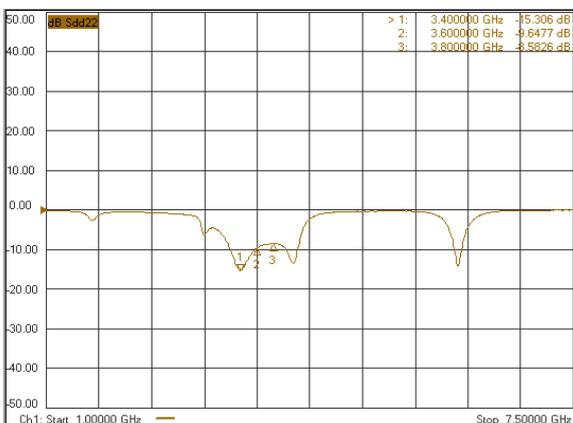
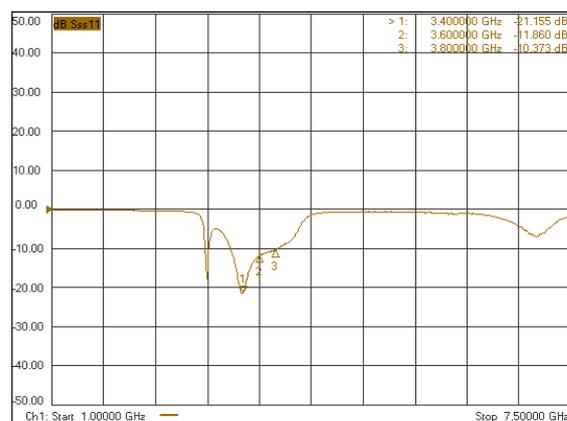
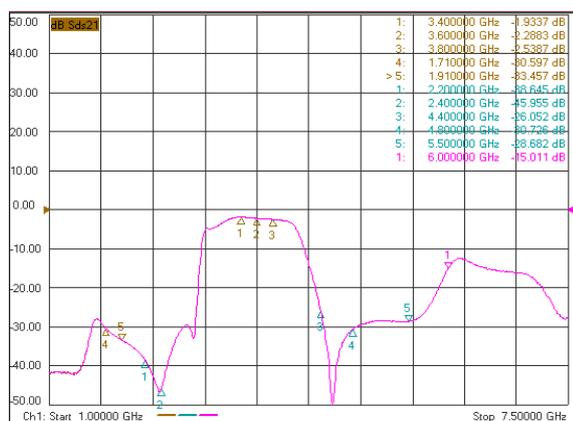
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Max	Ripple (dB)Max	Balance Port		Attenuation	Application
					Amplitude	Phase Difference		
BTBF0020123G6H6A10	3400~3800	3.2	7.36	1	2.5 dB Max	180±10°	30dB Min. @ 1710~1910 MHz 30dB Min. @ 2200~2400 MHz 20dB Min. @ 4400~4800 MHz 15dB Min. @ 5500~10 MHz	Wimax

- Unbalance impedance : 50 Ω
- Balance impedance : 100 Ω
- Operating temperature range -40°C ~85°C

Test Instruments : Agilent E5071C Network Analyzer

BTBF0020123G6H6A10

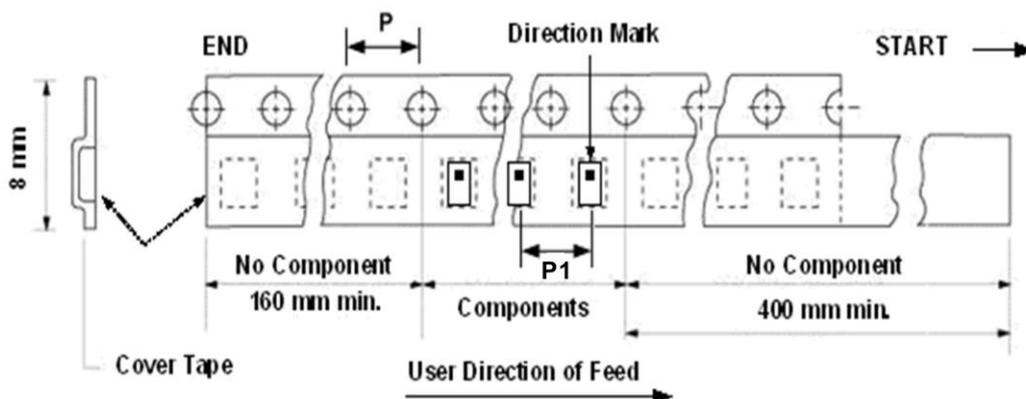


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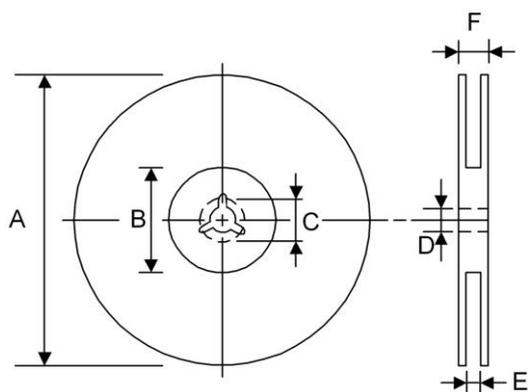
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Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity PCS / REEL
	P	P1	A	B	C	D	E	F	
BTBF001608	4	4	178	60	-	13	9	12	4000
BTBF002012	4	4	178	60	-	13	9	12	4000