BTLU Series



Features

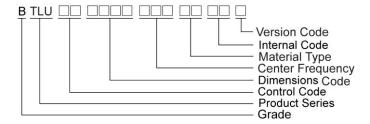
- RoHS, Halogen Free and REACH Compliance
- Miniaturized.
- Low insertion loss
- Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

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.

Applications

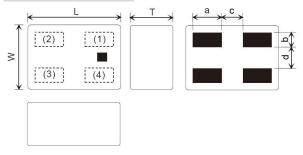
- WLAN ,Home RF, Bluetooth Module, etc.
- GSM/WCDMA/LTE mobile communication systems

Product Identification

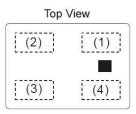


Shapes and Dimensions

BTLU000605xGxxxA10



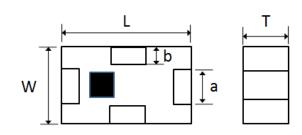
Terminal Configuration

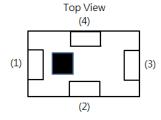


① GND ② Unbalance Port

3 4 Balance Port

BTLU0010050G7H6D10/BTLU0010052G0S1A10





① ③ Balance Port ② Unbalance Port ④ GND or DC Feed +RF GND

Dimension in mm

TYPE	L	W	Т	а	b	С	d
BTLU000605xGxxxA10	0.65±0.1	0.5±0.1	0.4±0.1	0.2±0.05	0.1±0.05	0.2±0.05	0.25±0.05
BTLU0010050G7H6D10	1.0±0.05	0.5±0.05	0.5 Max.	0.3±0.1	0.15±0.1	-	-
BTLU0010052G0S1A10	1.0±0.05	0.5±0.05	0.45±0.05	0.3±0.1	0.15±0.1	-	-

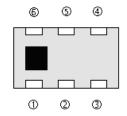


Shapes and Dimensions

BTLU001608xGxS1xx0

Terminal Configuration

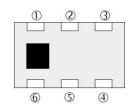
BTLU0016082G4S1A10/BTLU0016083G8S1A20/BTLU0016084G0S1A10



- ① Unbalance Port
- ② GND or DC Feed + RF GND
- 3 Balance Port 1

- 4 Balance Port 2
- ③ GND 6 N.C

BTLU001608xGxS1xx0



- ① N.C
- ② GND
- 3 Balance Port 1

- 4 Balance Port 2
- ⑤ GND or DC
- **6** Unbalance Port

Dimension in mm

TYPE	L	W	Т	а	b	С	р
BTLU0016082G4S1A10	1.6±0.10	0.8±0.1	0.6±0.1	0.3±0.1	0.3 ^{+0.1} -0.2	0.1±0.1	0.55±0.1
BTLU0016082G4S1A20	1.6±0.15	0.8±0.1	0.6±0.1	0.3±0.1	0.3 ^{+0.1} -0.2	0.1±0.1	0.55±0.1
BTLU0016082G4S1C20	1.6±0.15	0.8±0.1	0.5±0.1	0.3±0.1	0.3 ^{+0.1} -0.2	0.1±0.1	0.55±0.1
BTLU0016083G5S1A20	1.6±0.15	0.8±0.1	0.6±0.1	0.3±0.1	0.3 ^{+0.1} -0.2	0.1±0.1	0.55±0.1
BTLU0016083G8S1A20	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLU0016084G0S1A10	1.6±0.15	0.8±0.1	0.6±0.1	0.2±0.1	0.15±0.1	0.2±0.15	0.5±0.05
BTLU0016085G5S1E10	1.6±0.15	0.8±0.1	0.6±0.1	0.3±0.1	0.3 ^{+0.1} -0.2	0.1±0.1	0.55±0.1



Electrical Characteristics

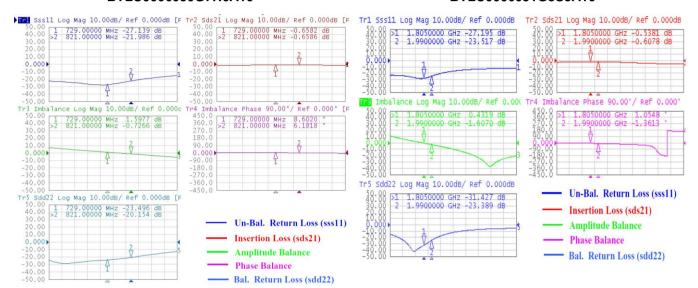
	Pass Band	Impeda	nce(Ω)	Return	Insertion	Baland	e Port	
Part Number	(MHz)	Unbalance	Balance	Loss (dB)Min	Loss (dB)Max	Amplitude Imbalance	Phase Difference	Application
BTLU0006050G7H6A10	729~821	50	100	10	0.7	2.0 dB Max	180±10°	LTE
BTLU0006051G8S5A10	1805~1990	50	100	10	0.7	2.0 dB Max	180±10°	LTE
BTLU0006052G5S5A10	2300~2700	50	100	10	0.7	2.5 dB Max	180±10°	WIMAX

Operating temperature range −40°C ~85°C

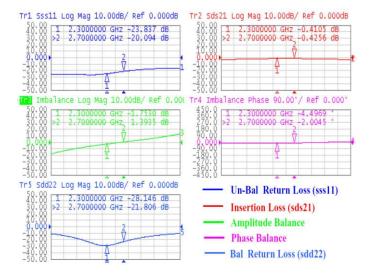
Test Instruments: Agilent E5071C Network Analyzer

BTLU0006050G7H6A10

BTLU0006051G8S5A10



BTLU0006052G5S5A10





Electrical Characteristics

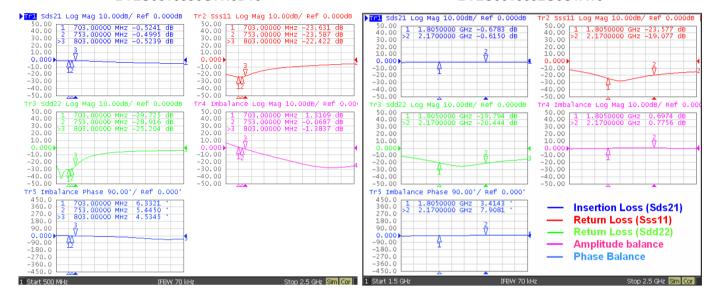
	Pass Band	Impedance(Ω)		Return	Insertion	Baland	ce Port		
Part Number	(MHz)	Unbalance	Balance	Loss (dB)Min	Loss (dB)Max	Amplitude Imbalance	Phase Difference	Application	
BTLU0010050G7H6D10	703~803	50	100	10	0.8 at 25℃ 1.0	2.0 dB Max	180±12°	GSM/WCDMA/LTE	
BTLU0010052G0S1A10	1805~2170	50	100	10	1.2	1.2 dB Max	180±15°	LTE	

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

Test Instruments: Agilent E5071C Network Analyzer

BTLU0010050G7H6D10

BTLU0010052G0S1A10





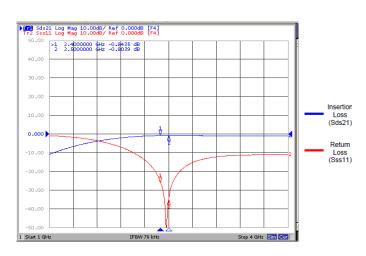
Electrical Characteristics

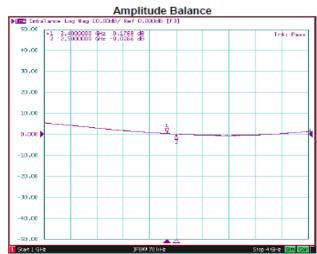
	Pass Band	Impedan	ice(Ω)	Return	Insertio	n	Balanc	e Port	
Part Number	(MHz)	Unbalance	Balance	Loss (dB)Min	Loss (dB)Max		Amplitude Imbalance	Phase Difference	Application
BTLU0016082G4S1A10	2400~2500	50	100	10	1.2		2 dB Max	180±10°	WLAN/BT
BTLU0016082G4S1A20	2400~2500	50	50	10	1.2		2 dB Max	180±10°	WLAN/BT
BTLU0016082G4S1C20	2400~2500	50	50	10	1.0		2 dB Max	180±10°	WLAN/BT
BTLU0016083G5S1A20	3300~3800	50	50	10	1.2		2 dB Max	180±15°	WIMAX
BTLU0016083G8S1A20	3300~4200	50	50	10	1.2		1.5 dB Max	180±15°	LTE/5G
BTLU0016084G0S1A10	0400 5000		400	10	25℃	1.1	1.2 dB Max	180±10°	LTE/FO
	3100~5000	50	100		-40~85℃	1.3	1.4 dB Max	180±12°	LTE/5G
BTLU0016085G5S1E10	4900~5900	50	100	10	1.2		2 dB Max	180±10°	WLAN

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

Test Instruments: Agilent E5071C Network Analyzer

BTLU0016082G4S1A10





BTLU0016082G4S1A10

BTLU0016082G4S1A20

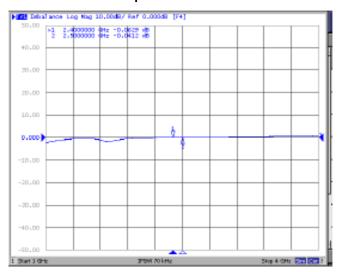


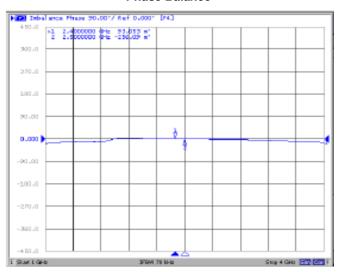


BTLU0016082G4S1A20

Amplitude Balance

Phase Balance

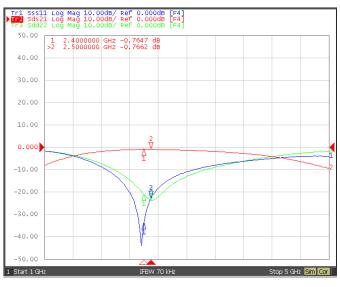


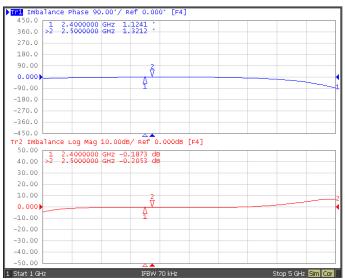


BTLU0016082G4S1C20

Insertion Loss / Return Loss

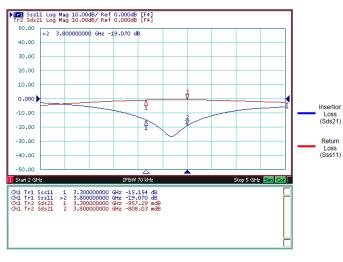
Phase / Amplitude





BTLU0016083G5S1A20

Amplitude Balance





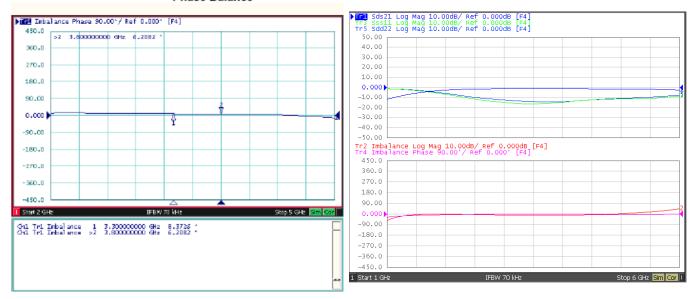
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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



BTLU0016083G5S1A20

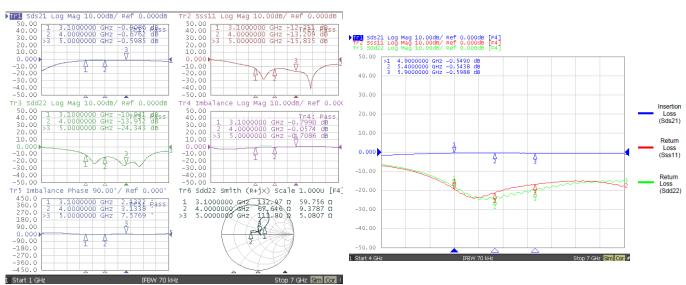
BTLU0016083G8S1A20

Phase Balance

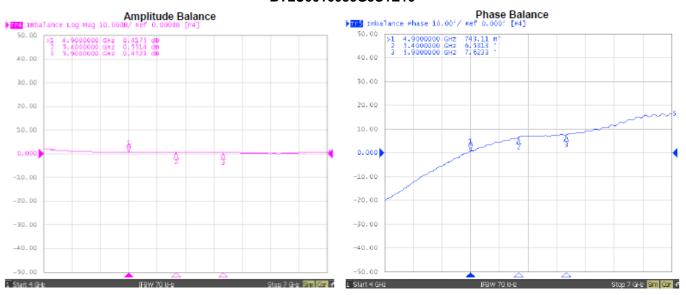


BTLU0016084G0S1A10

BTLU0016085G5S1E10



BTLU0016085G5S1E10



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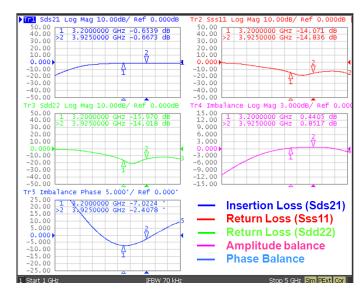
Electrical Characteristics

	Pass Band	Impedance(Ω)		Return	Insertion	Balanc	e Port	
Part Number	(MHz)	Unbalance	Balance	Loss (dB)Min	Loss (dB)Max	Amplitude Imbalance	Phase Difference	Application
BTLU0020123G6S1A30	3200~3925	50	200	10	1.2	1 dB Max	180±10°	WiMAX

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

Test Instruments: Agilent E5071C Network Analyzer

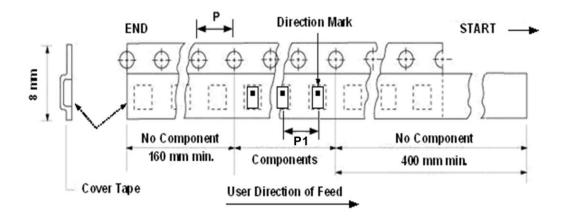
BTLU0020123G6S1A30



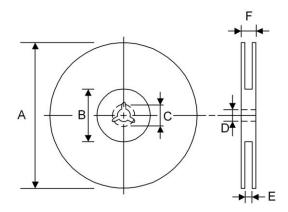


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TVDE	Tape Dir	nensions		Quantity					
TYPE	Р	P1	Α	В	С	D	E	F	PCS / REEL
BTLU000605	4	2	178	60	-	13	9	12	10000
BTLU001005	4	2	178	60	-	13	9	12	10000
BTLU001608	4	4	178	60	-	13	9	12	4000
BTLU002012	4	4	178	60	-	13	9	12	4000



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