BTLC 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.

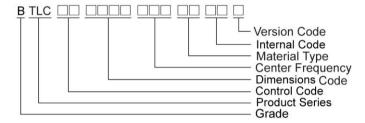
Features

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

Applications

- Wideband coupler for LTE, mobile phone.
- WLAN ,Bluetooth ,Home RF

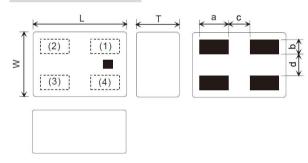
Product Identification

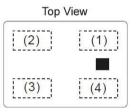


Shapes and Dimensions

Terminal Configuration

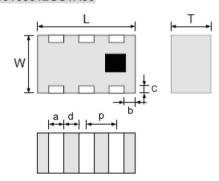
BTLC00060525GS1A10

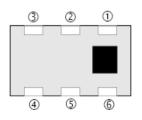




① Coupled Out ② Terminate ③ Output

BTLC00160812GS1A80





① Main Out ② GND ③ IN ④ Couple Out ⑤ GND ⑥ Terminate

Dimension in mm

TYPE	L	w	Т	а	b	С	d	р
BTLC00060525GS1A10	0.65±0.05	0.5±0.05	0.25±0.05	0.2±0.05	0.1±0.05	0.2±0.05	0.25±0.05	-
BTLC00160812GS1A80	1.6±0.1	0.8±0.1	0.6±0.1	0.2±0.1	0.2 ^{+0.1} -0.15	0.15±0.1	0.3±0.1	0.5±0.05



④ Input

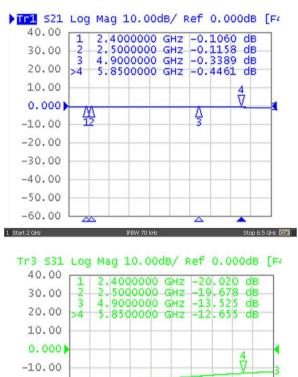
Electrical Characteristics

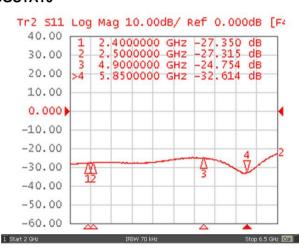
Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Coupling	Isolation (dB)Min	Application
BTLC00060525GS1A10	2400~2500	0.25	17.69	19.0±1.5dB @ 2400~2500 MHz	20	WLAN/BT
	4900~5850	0.55	17.09	12.5±1.5dB @ 4900~5850 MHz	20	

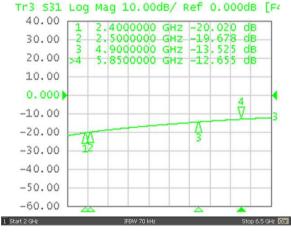
Operating temperature range $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$

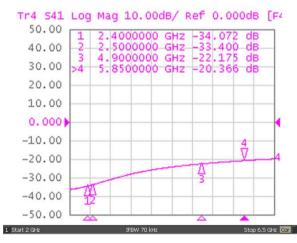
Test Instruments: Agilent E5071 Network Analyzer

BTLC00060525GS1A10











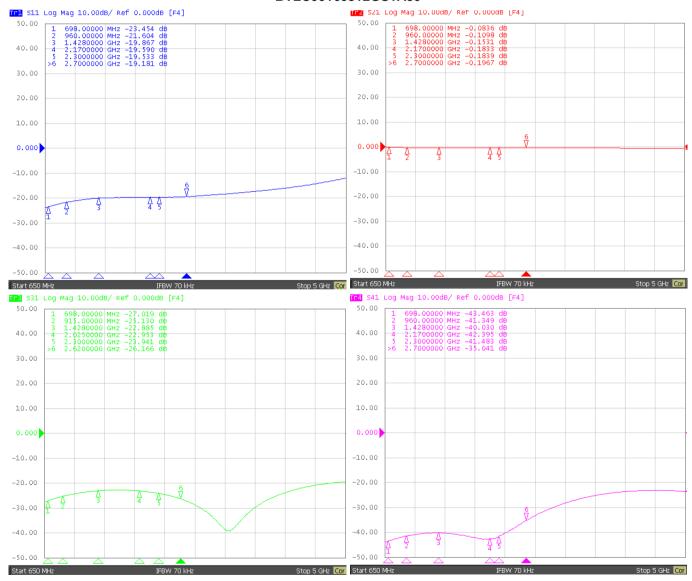
Electrical Characteristics

Part Number	Pass Band (MHz)	Insertion Loss (dB)Max	Return Loss (dB)Min	Coupling	Isolation (dB)Min	Application
BTLC00160812GS1A80	698~960 1428~2170 2300~2700	0.15 0.25 0.25	13.98	26.8±1dB @ 698 MHz 24.9±1dB @ 915 MHz 22.4±1dB @ 1428 MHz 22.0±1dB @ 2025 MHz 24.5±1dB @ 2300 MHz 26.8±1dB @ 2620 MHz	40 35 35	LTE

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

Test Instruments: Agilent E5071 Network Analyzer

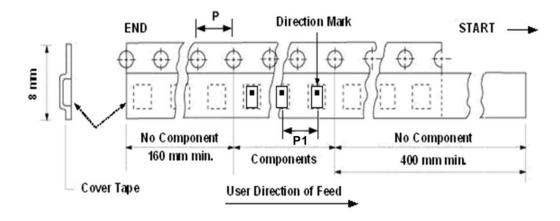
BTLC00160812GS1A80



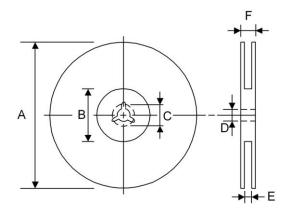


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions		Reel Dimensions						Quantity
	Р	P1	Α	В	С	D	E	F	PCS / REEL
BTLC000605	4	2	178	60	-	13	9	12	10000
BTLC001608	4	4	178	60	-	13	9	12	4000

