

## LTCC 低温共烧陶瓷

### ■ Feature 特点

#### **Compact Size** 体积小

Miniaturized SMD packaged in low profile and lightweight.

#### **Low Loss** 低插入损耗

Low insertion loss, high attenuation.

#### **High Soldering Heat Resistance** 耐高温表面焊接

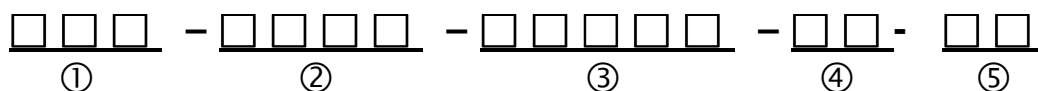
High quality termination allows both flow and re-flow soldering methods to be applied.

#### **High Performance** 特性优良

Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

**Available in tape and reel packaging for automatic mounting** 卷轴包装适用于表面贴片技术

### ■ Product Identification 产品型号



- ① Product Code
- ② Dimension Code
- ③ Series Type (center frequency and material type)
- ④ Design Code
- ⑤ Pattern Code



## Balun 平衡-不平衡变压器

### Application 用途

Cell Phone, PHS, WLAN, Bluetooth, Home RF, WiMAX, etc.

### Dimensions 外观尺寸

Figure A

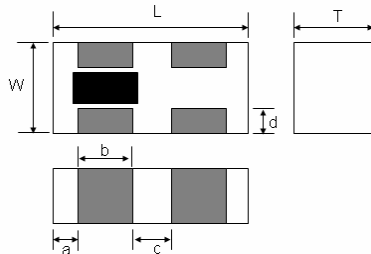
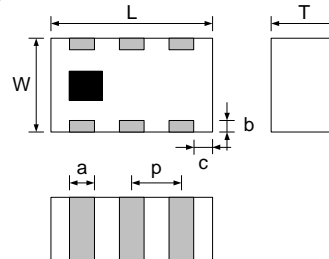


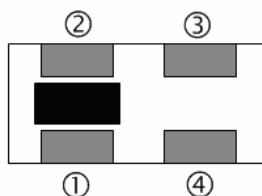
Figure B



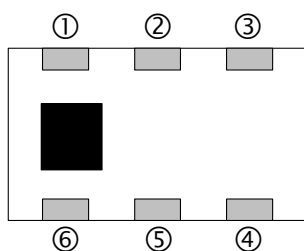
Unit: mm

Figure	L	W	T	a	b	c	p/d
A	1.0±0.10	0.5±0.10	0.5±0.10	0.1±0.10	0.3±0.1	0.20±0.1	0.15±0.1
B	1.60±0.15	0.8±0.10	0.60±0.10	0.30±0.10	0.30±0.20	0.10±0.10	0.55±0.10
B	2.00±0.15	1.25±0.15	0.95±0.10	0.30±0.20	0.25±0.20	0.20±0.20	0.65±0.20

### Termination Configuration 脚位图



- ① Unbalanced Port
- ② Balanced Port
- ③ Balanced Port
- ④ GND



- ① N. C. (Balance Port for 1608-2G4S1-A3/A4)
- ② GND (N.C. for 1608-2G4S1-A3/A4)
- ③ Balanced Port
- ④ Balanced Port (GND for 1608-2G4S1-A3/A4)
- ⑤ GND or DC (N.C. for 1608-2G4S1-A3/A4, GND for 1608-2G4S1-B1/B2 and 1608-5G5S1-D1)
- ⑥ Unbalanced Port



■ Electrical Specification 电气规格

Part No. 型号	Pass Band 带宽 (MHz)	Insertion Loss 插入损耗	VSWR 电压 驻波比	Phase Difference 相位差	Amplitude Balance 振幅平衡	Unbalance/Balance Impedance 非平衡/平衡阻抗
LTU-1608-0G8S1-A1	824~849	1.0dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1608-1G8S1-A1	1710~1910	1.0dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1608-1G9S1-A1	1920~1990	1.0dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-2012-1G9S1-A1	1892~1920	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1005-2G4S1-A1	2400~2500	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1005-2G4S1-A2	2400~2500	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 50 ohm
LTU-1608-2G4S1-A1	2400~2500	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1608-2G4S1-B1	2400~2500	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1608-2G4S1-A2	2400~2500	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 50 ohm
LTU-1608-2G4S1-A3	2400~2500	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 50 ohm
LTU-1608-2G4S1-A4	2400~2500	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-2012-2G4S1-A1	2400~2500	1.0dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-2012-2G4S1-A2	2400~2500	1.0dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 50 ohm
LTU-2012-2G4S1-A5	2400~2500	1.0dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 50 ohm
LTU-1005-2G5S1-A1	2300~2700	1.5dB max.	2.0 max.	$180^{\circ} \pm 15^{\circ}$	2dB max.	50 / 100 ohm
LTU-1005-2G5S1-A2	2300~2700	1.5dB max.	2.0 max.	$180^{\circ} \pm 15^{\circ}$	2dB max.	50 / 50 ohm
LTU-1608-2G5S1-A1	2300~2700	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1608-2G5S1-A2	2300~2700	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 50 ohm

Part No. 型号	Pass Band 带宽 (MHz)	Insertion Loss 插入损耗	VSWR 电压 驻波比	Phase Difference 相位差	Amplitude Balance 振幅平衡	Unbalance/Balance Impedance 非平衡/平衡阻抗
LTU-1608-3G5S1-A1	3300~3800	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1608-3G5S1-A2	3300~3800	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 50 ohm
LTU-1005-5G5S1-A1	4900~5950	1.5dB max.	2.0 max.	$180^{\circ} \pm 15^{\circ}$	2dB max.	50 / 100 ohm
LTU-1005-5G5S1-A2	4900~5950	1.5dB max.	2.0 max.	$180^{\circ} \pm 15^{\circ}$	2dB max.	50 / 50 ohm
LTU-1608-5G5S1-A1	4900~5900	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1608-5G5S1-D1	4900~5900	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm
LTU-1608-5G5S1-A2	4900~5900	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 50 ohm
LTU-1608-5G5S1-B2	4900~5900	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 50 ohm
LTU-1608-5G5S1-A3	4900~5900	1.2dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 200 ohm
LTU-2012-5G5S1-A1	4900~5900	1.0dB max.	2.0 max.	$180^{\circ} \pm 10^{\circ}$	2dB max.	50 / 100 ohm

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