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Pulse
A YAGEO Company

TECHNICAL DATA SHEET

**Description**: 1608 Balun

**PART NUMBER: BLN1608LWK8R2400A**

## Features:

- Compact size
- RoHS compliant
- AEC-Q200 certificated

## Applications:

- WLAN.



Net weigh/pcs (g): 0.0022

## ELECTRICAL SPECIFICATIONS

| Frequency range (MHz) | Insertion Loss (dB) | | Return Loss (dB) | |
|---|---|---|---|---|
| 2400~2500 | 1.5 max. | | 9.5 min. | |
| Attenuation @ differential mode (dB) | Phase difference (deg.) | Amplitude difference (dB) | Unbalance port impedance (Ω) | Balance port impedance (Ω) |
| 25 min. @ 4800~5000 MHz | 180±10° | 2 max. | 50 | 200 |
| 20 min. @ 7200~7500 MHz | | | | |

Operating Temperature Range：-40~125°C
Power Capacity：3W max.

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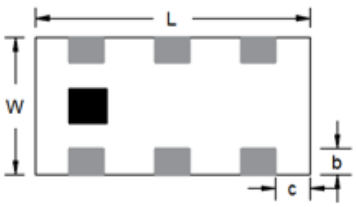
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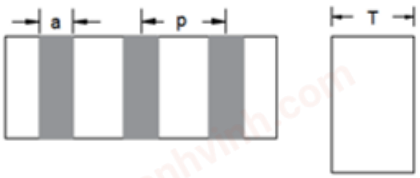
**PART NUMBER: BLN1608LWK8R2400A**

## MECHANICAL DIMENSION

### Outline




<Top View>




<Side View>

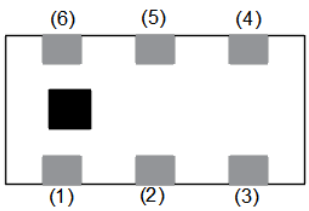
### Dimension

| L | W | T | a |
|---|---|---|---|
| 1.60±0.10 | 0.80±0.10 | 0.60±0.10 | 0.30±0.10 |
| B | c | p | |
| 0.20±0.10 | 0.15±0.10 | 0.55±0.05 | |

NOTE：Dimensions in mm.

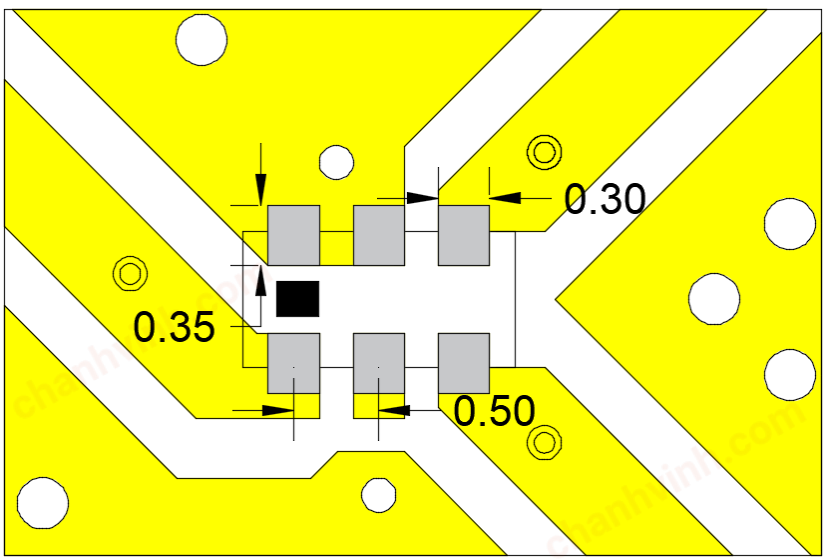
### Termination

Top View




| Terminal name | Function |
|---|---|
| P1 | Unbalance |
| P2 | NC |
| P3 | Balance |
| P4 | Balance |
| P5 | GND |
| P6 | GND |

## Reference design of EVB




Unit：mm

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

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RoHS COMPLIANT

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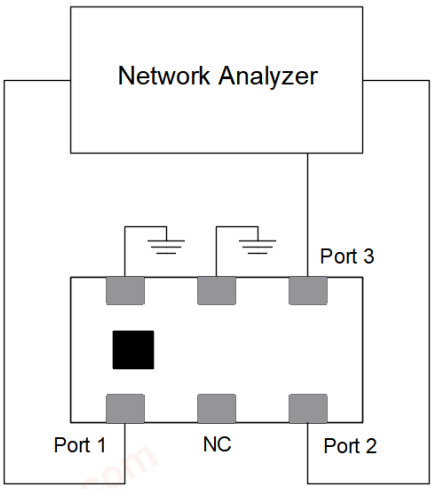
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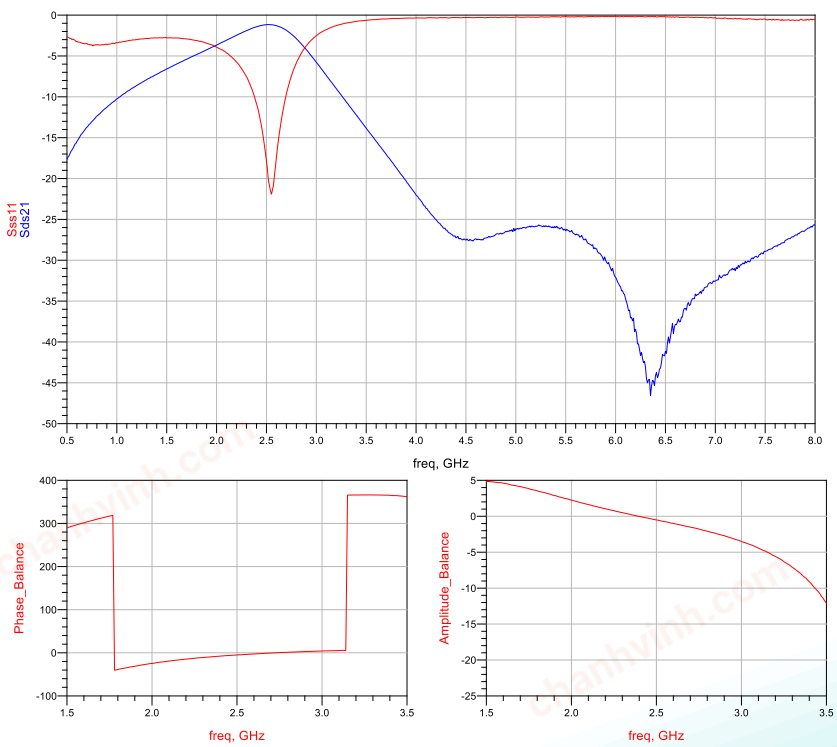
**PART NUMBER: BLN1608LWK8R2400A**

## MEASURING DIAGRAM




Test Instrument：
Agilent E5071A Network Analyzer.

## ELECTRICAL PERFORMANCES




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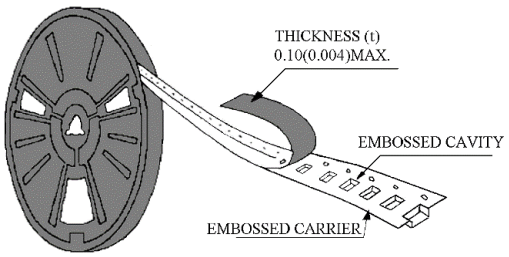
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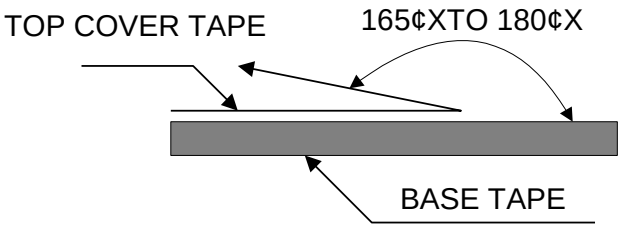
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## PACKING SPECIFICATION

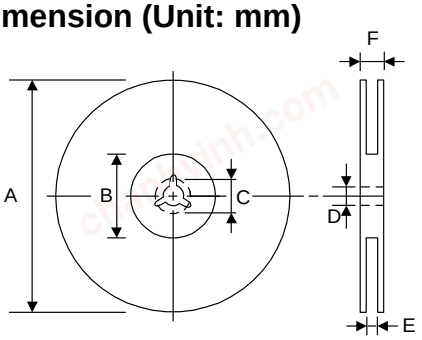
### Peel-off force




The force for peeling of cover tape is 10 grams in the arrow direction.

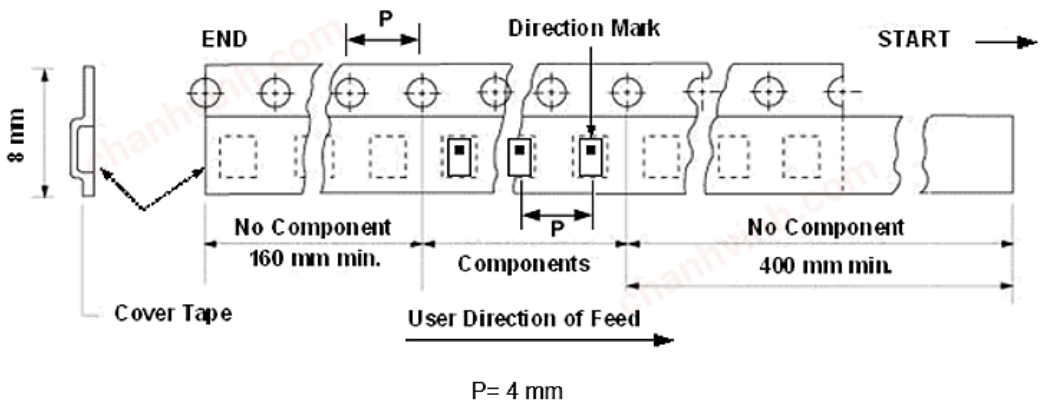
### Dimension (Unit: mm)




| TYPE | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 8 mm | 178±1 | 60+0.5 -0 | - | 13±0.2 | 9±0.5 | 12±0.5 |
| 12 mm | 178±0.3 | 60±0.2 | 19.3±0.1 | 13.5±0.1 | 13.6±0.1 | - |

### Taping quantity

| SERIES | 5824 5724 | 5320 5220 | 4532 | 4516 | 3225 | 3216 2520 | 2012 1608 | 1005 0605 |
|---|---|---|---|---|---|---|---|---|
| PCS/Reel | 5000 | 3000 | 1000 | 2000 | 2500 | 3000 | 4000 | 10000 |




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## REVISION HISTORY

| Revision | Date | Description |
|---|---|---|
| Version 1 | Apr. 18, 2023 | - New issue |
| Version 2 | May. 07, 2023 | - Update electrical specifications |

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