

2.4&5GHz 1608 Diplexer: LDP1608R2455L202

Applications:

WLAN, 802.11b/g, ISM Band...

Features

SMD, high reliability, ultra-Impact...



Part number

<u>LDP</u>	<u>1608</u>	<u>R</u>	<u>2455</u>	<u>L2</u>	<u>02</u>
(1)	(2)	(3)	(4)	(5)	(6)

(1) Product Code	LTCC-DPX
(2) Size Code	1.6x0.8mm
(3) Packing	Tape and reel
(4) Frequency	2.4&5GHz
(5) Series	L2
(6) Type	02

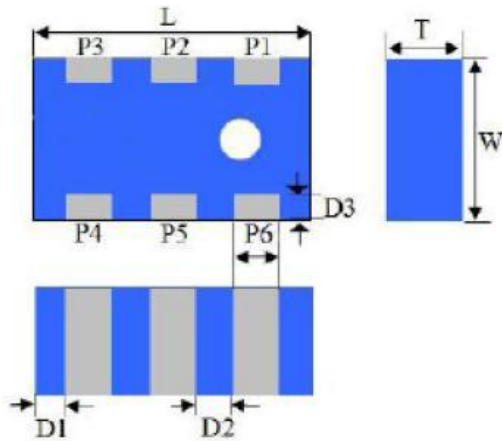
Electrical Specification

DESCRIPTION	VALUE	
Pass Band	Low Band	High Band
	2400~2500MHz	4900~6000MHz
Insertion Loss	0.70dB max.	0.80dB max.
VSVR	2.0 max.	1.7 max.
Attenuation	20dB min. @4800~5000MHz 20dB min. @7200~7500MHz	28dB min. @860~960MHz 23dB min. @1545~1605MHz 23dB min. @1710~1990MHz 28dB min. @2170MHz 8dB min. @8100MHz 15dB min.@8820~9800MHz 27dB min.@9800~11800MHz
Isolation	Low Band to High Band: 20dB min. @4900~5950MHz	
Operating Temperature	-40 ~ +85 °C	

The specification is defined on EVB.

2.4&5GHz 1608 Diplexer: LDP1608R2455L202

Dimension and Terminal Configuration



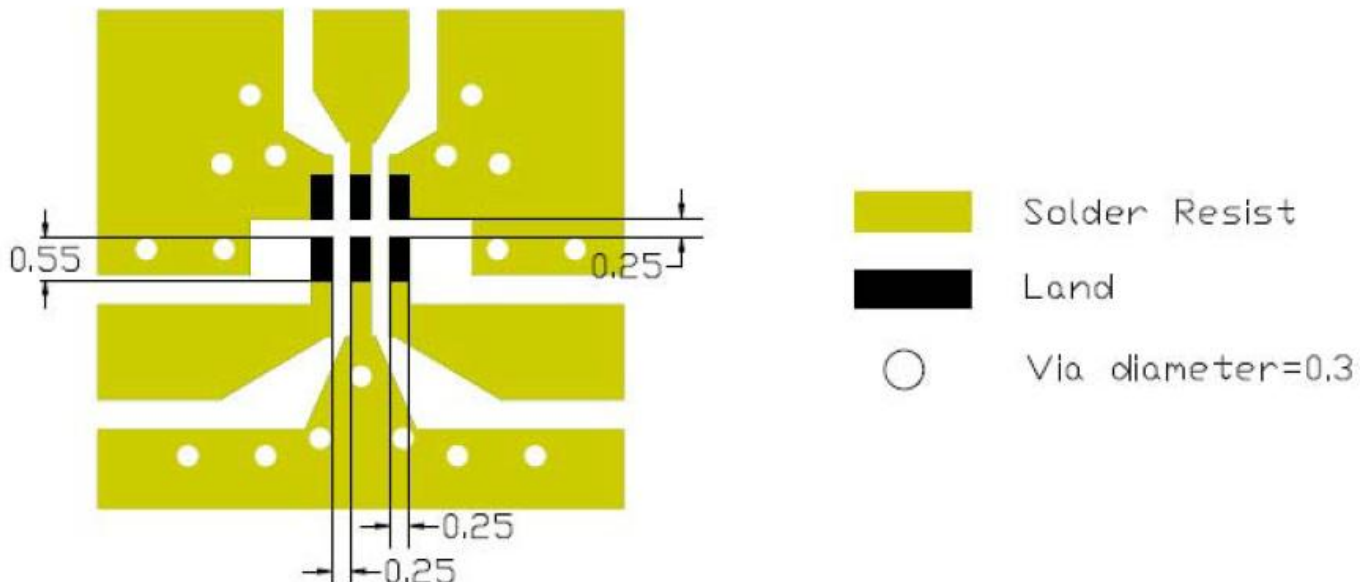
Dimension (mm)	
L (mm)	1.60 ± 0.15
W (mm)	0.80 ± 0.15
T (mm)	0.60 ± 0.15
P1 (mm)	0.20 ± 0.15
P2 (mm)	0.20 ± 0.15
P3 (mm)	0.20 ± 0.15
P4 (mm)	0.20 ± 0.15
P5 (mm)	0.20 ± 0.15
P6 (mm)	0.20 ± 0.15
D1 (mm)	0.20 ± 0.15
D2 (mm)	0.30 ± 0.10
D3 (mm)	0.15 ± 0.10

No.	Terminal Name
P1	High band
P2	Ground
P3	Low band port
P4	Ground
P5	Common port
P6	Ground

*P.S : Symmetrical,
No direction*

Evaluation Board Reference

Recommended PCB Pattern



2.4&5GHz 1608 Diplexer: LDP1608R2455L202

Electrical Characteristics

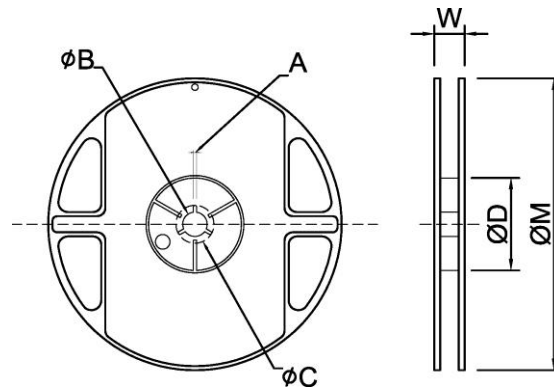


2.4&5GHz 1608 Diplexer: LDP1608R2455L202

Taping Specifications

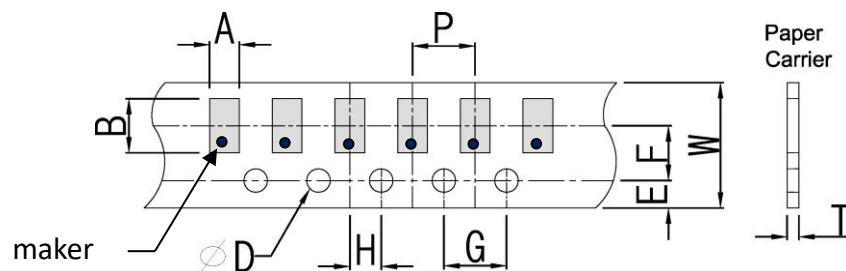
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ϕ B	ϕ C	ϕ D	W	ϕ M
1608	7"	4K/Reel	2.0±0.5	13.5±1.0	21±1.0	60±1.0	11.5±2.0	178±2.0

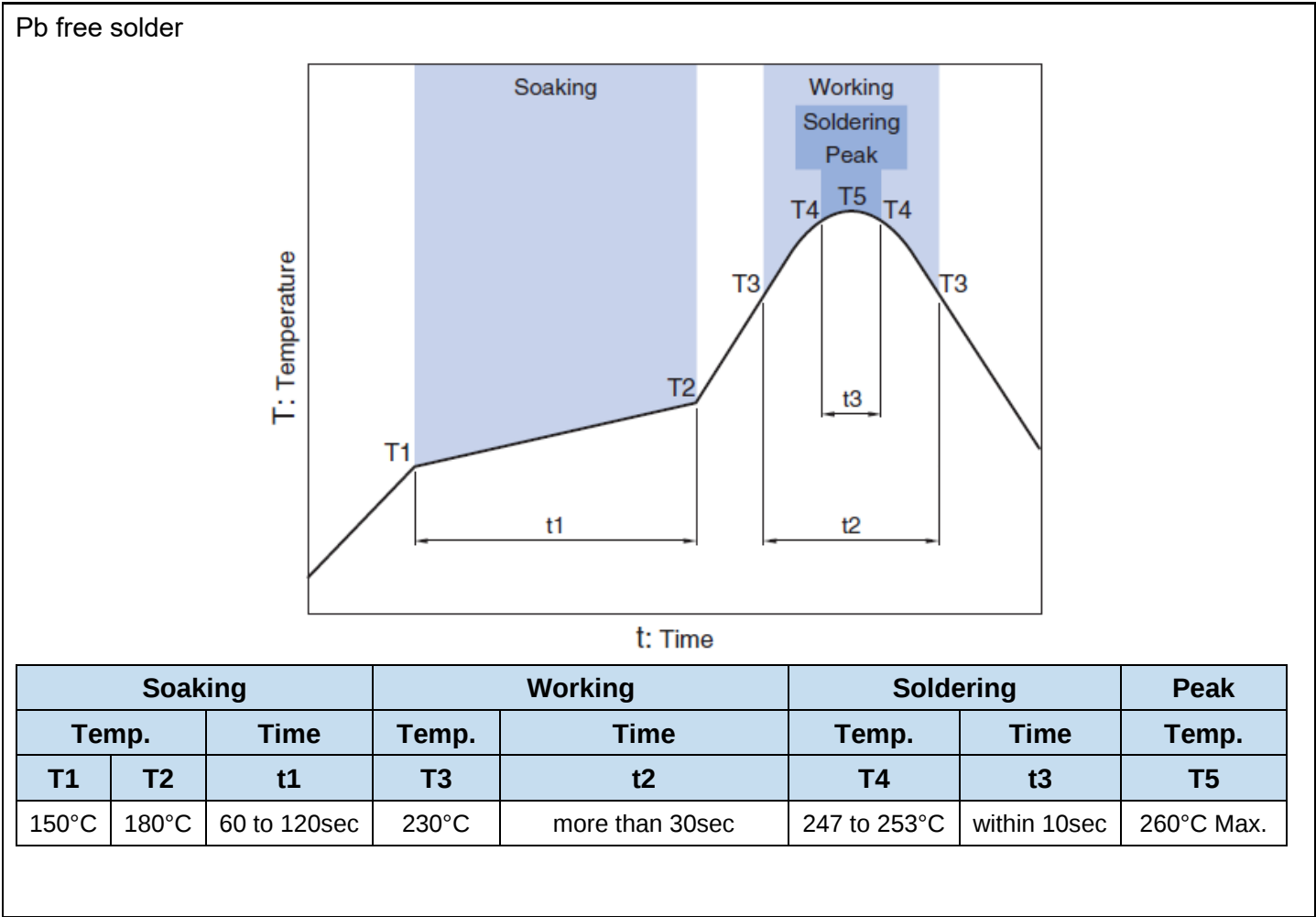
Tapping Specification



Packaging	Type	A	B	W	E	F	G	H	T	φD	P
Paper Type	1608	1.40±0.20	2.20±0.20	8.0±0.20	1.75±0.10	3.0±0.05	4.0±0.10	2.0±0.05	0.75±0.10	1.50 ^{+0.10} ₋₀	4.0±0.1

2.4&5GHz 1608 Diplexer: LDP1608R2455L202

Recommended Reflow Profile



Revision History

Version	Date	Description
Ver.01	Jul.2023	New issue.