

2.4&5GHz 1005 Diplexer: LDP1005R2455L201

Applications:

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

Features

SMD, high reliability, ultra-Impact...

Part number

LDP 1005 R 2455 L2 01
(1) (2) (3) (4) (5) (6)

(1) Product code	LTCC-DPX
(2) Size Code	1.0x0.5mm
(3) Packing	Tape and reel
(4) Frequency	2.4/5GHz
(5) Series	L2
(6) Type	01

Electrical Specification

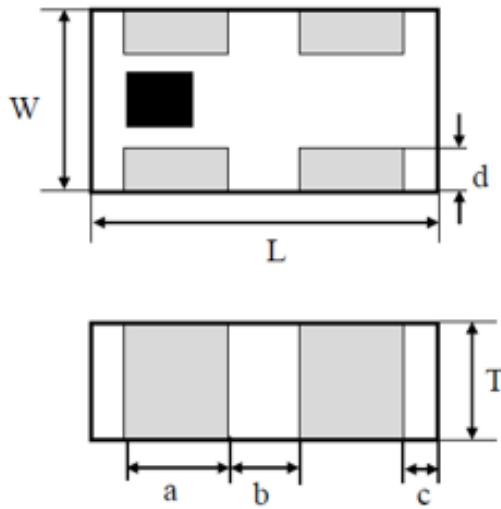
DESCRIPTION	VALUE	
Pass Band	Low Band	High Band
	617~698/ 2400~2500MHz	4900~6000MHz
Insertion Loss	0.5dB max.(0.35dB typ.) @25℃ 0.6dB max. @ -40~85℃	0.8dB max.(0.6dB typ.) @25℃ 1.0dB max. @ -40~85℃
VSVR	2.0 max.	2.0 max.
Attenuation	23dB min. @4800~6000 MHz 23dB min. @7200~7500 MHz	25dB min. @30~2400MHz 32dB min. @2400~2500MHz 23dB min. @2500~2690MHz 20dB min. @9800~11190MHz
Isolation	Low Band to High Band: 20dB min. @4900~5950MHz	
Operating Temperature	-40 ~ +85 °C	

Operating Temperature Range:-40~85℃

Power Capacity:3W max.

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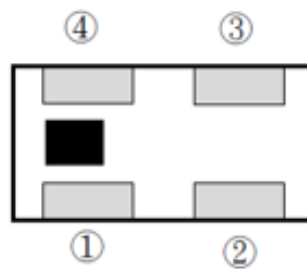
Dimension and Terminal Configuration



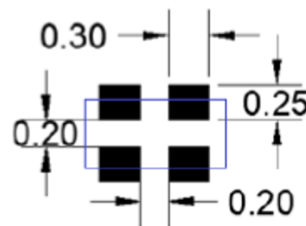
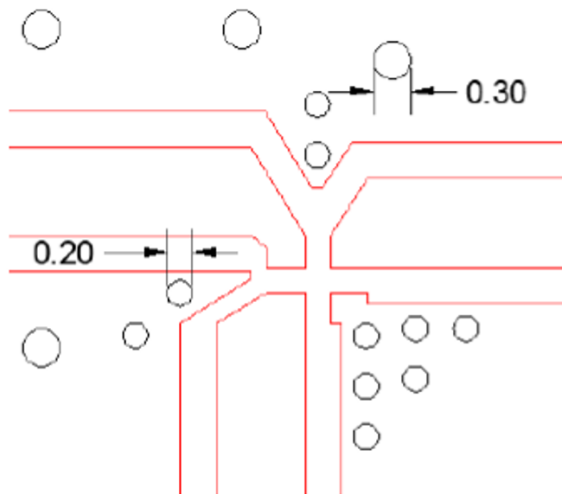
Dimension (mm)	
L	1.00±0.10
W	0.50±0.10
T	0.33 Max.
a	0.30 ±0.10
b	0.20 ±0.10
c	0.10 ±0.10
d	0.12 ±0.07

No.	Terminal Name
P1	Common
P2	GND
P3	High band
P4	Low band

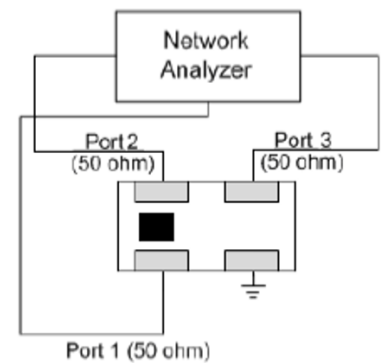
Top view



Evaluation Board Reference



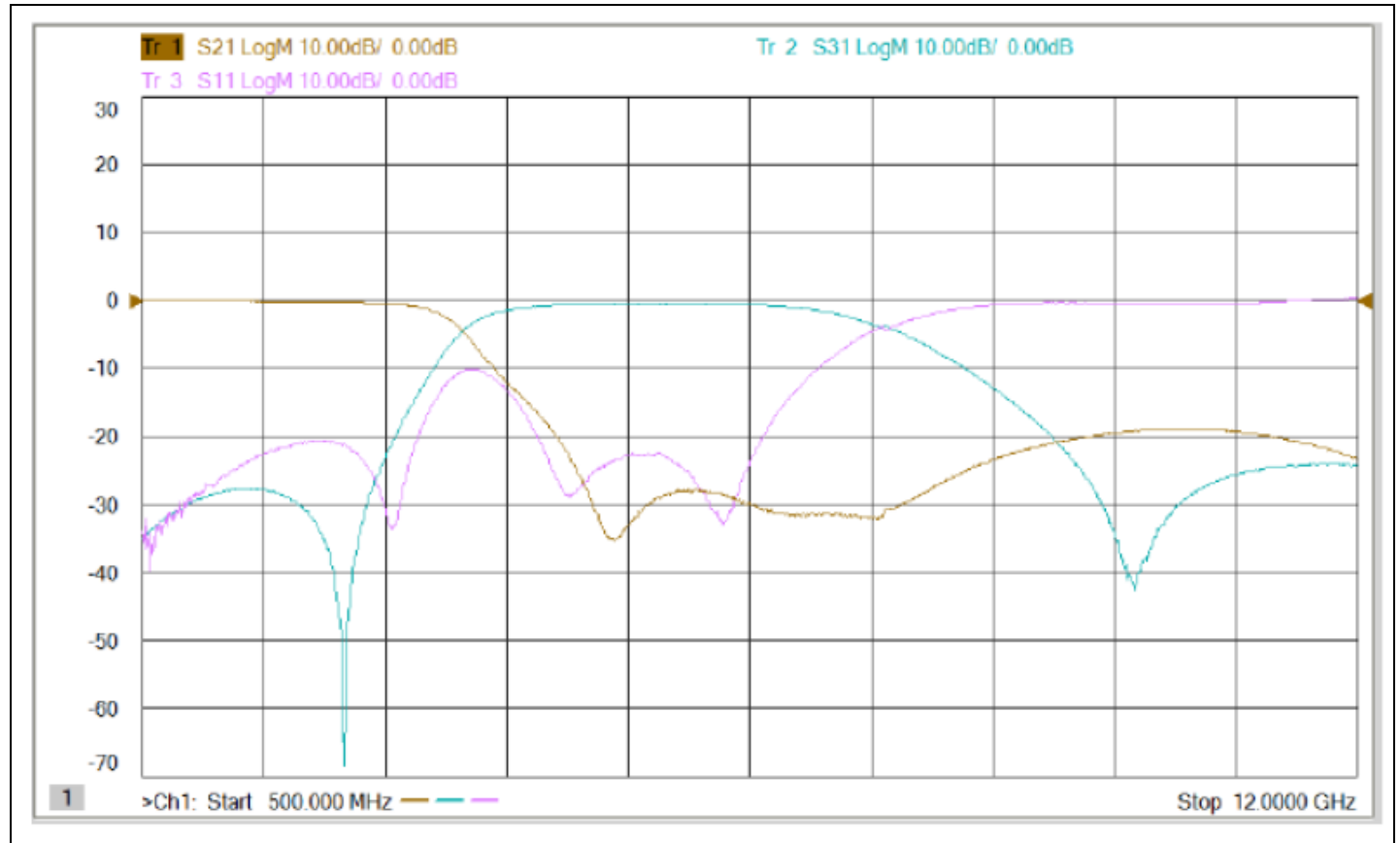
Unit : mm



Test Instrument:
Agilent E5071C Network
Analyzer or equivalent.

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Electrical Characteristics

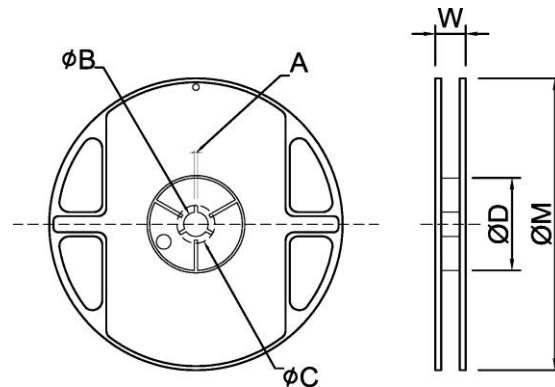


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Taping Specifications

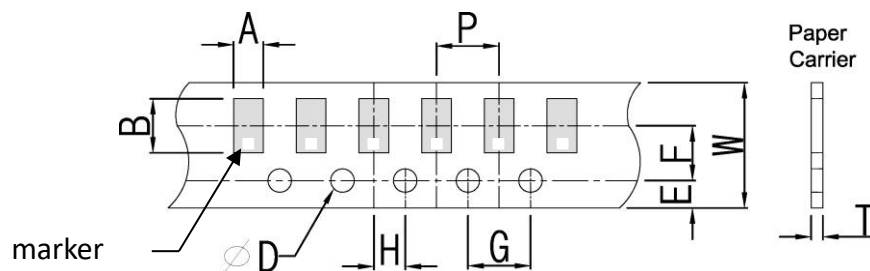
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	φB	φC	φD	W	φM
1005	7"	10K/Reel	2.0±0.5	13.5±1.0	21±1.0	60±1.0	11.5±2.0	178±2.0

Tapping Specification

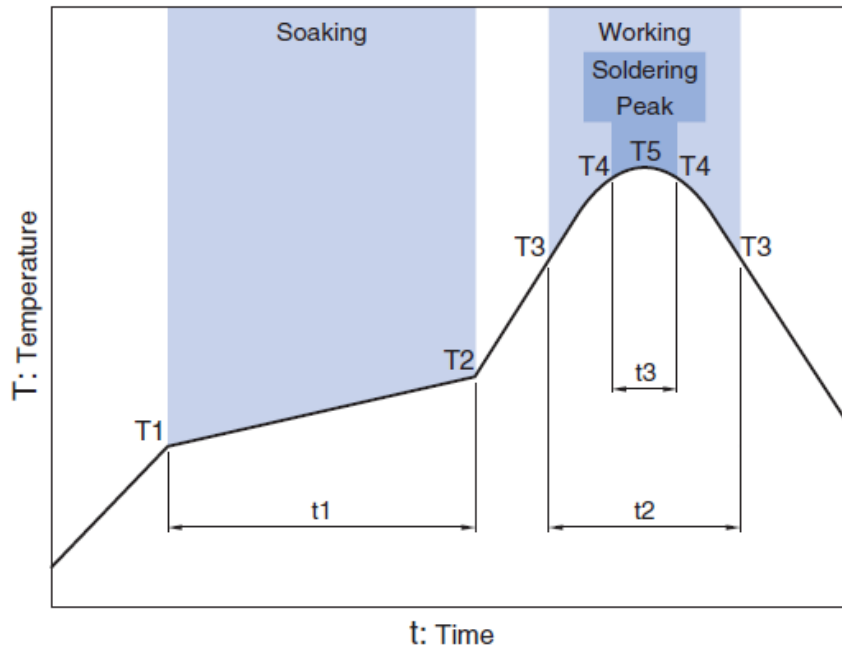


Packaging	Type	A	B	W	E	F	G	H	T	φD	P
Paper Type	1005	1.00±0.20	1.55±0.20	8.0±0.20	1.75±0.10	3.3±0.05	4.0±0.10	2.0±0.05	0.75±0.10	1.50 ^{+0.10} ₋₀	4.0±0.1

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Recommended Reflow Profile

Pb free solder



Soaking			Working		Soldering		Peak
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

Revision History

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