

3.3~4.2GHz 1608 Band Pass Filter: LBP1608R3750L201

Applications:

WWAN, 5G NR n77

Features

SMD, high reliability, ultra-impact...

Part number

LBP 1608 R 3750 L2 01
(1) (2) (3) (4) (5) (6)

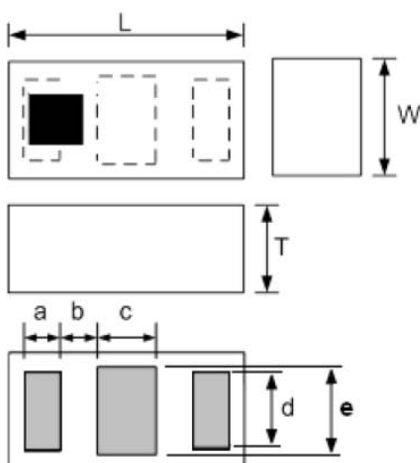
(1) Product code	LTCC-BPF
(2) Size Code	1.6x0.8mm
(3) Packing	Tape and reel
(4) Frequency	3300~4200MHz
(5) Packing Number	L2
(6) Type	03

Electrical Specification

Pass Band	3300~4200MHz
Impedance	50 Ohm
Insertion Loss	2.0dB max. (1.73dB typ.) @ 25°C 2.5dB max. @ -40~85°C
Attenuation	30 dB min. (39.37dB typ.) @ 100~2750 MHz 23 dB min. (41.91dB typ.) @ 2620~2690 MHz 15 dB min. (20.31dB typ.) @ 5150~5925 MHz 25 dB min. (31.30dB typ.) @ 6600~8400 MHz 25 dB min. (31.30dB typ.) @ 9900~12600 MHz (Ref.)
VSWR	2.0 (Max)
Ripple	0.50dB
Operating Temperature	-40 ~ +85 °C

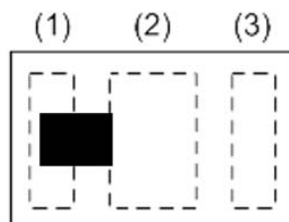
The specification is defined on EVB.

Dimension and Terminal Configuration



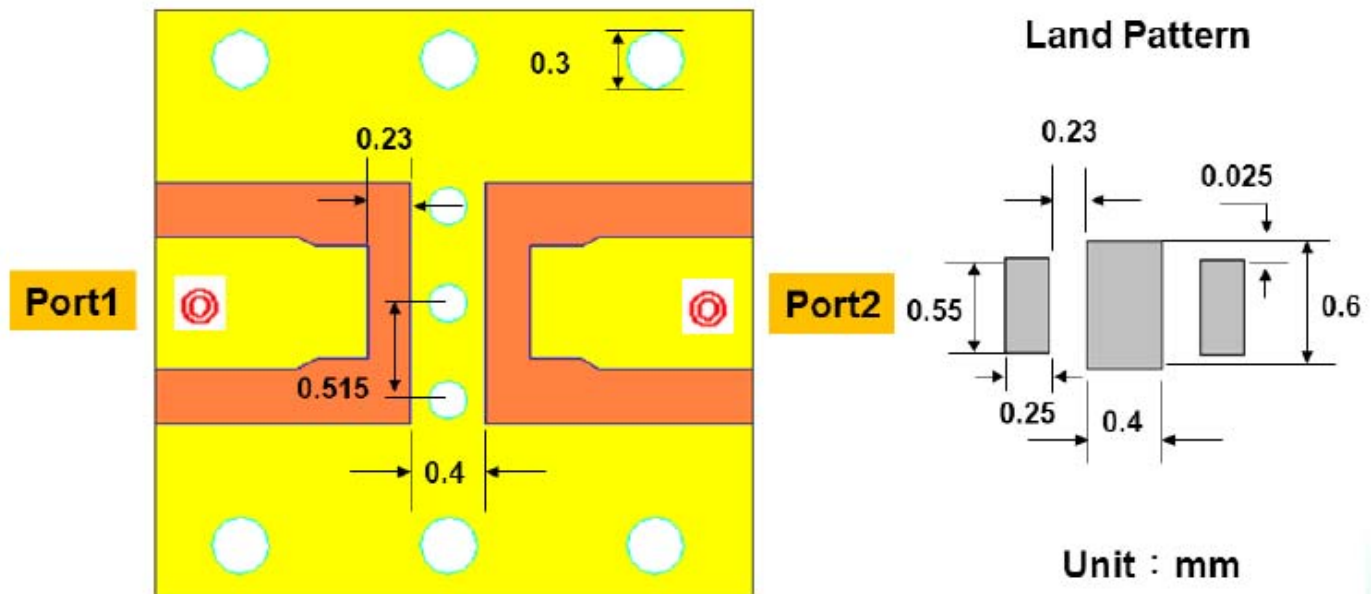
No.	Terminal Name
P1	Input/ Output
P2	GND
P3	Input/ Output

Dimension (mm)	
L	1.60±0.10
W	0.80±0.10
T	0.35 Max.
a	0.25 ±0.05
b	0.23 ±0.05
c	0.40 ±0.05
d	0.55 ±0.05
e	0.60 ±0.05

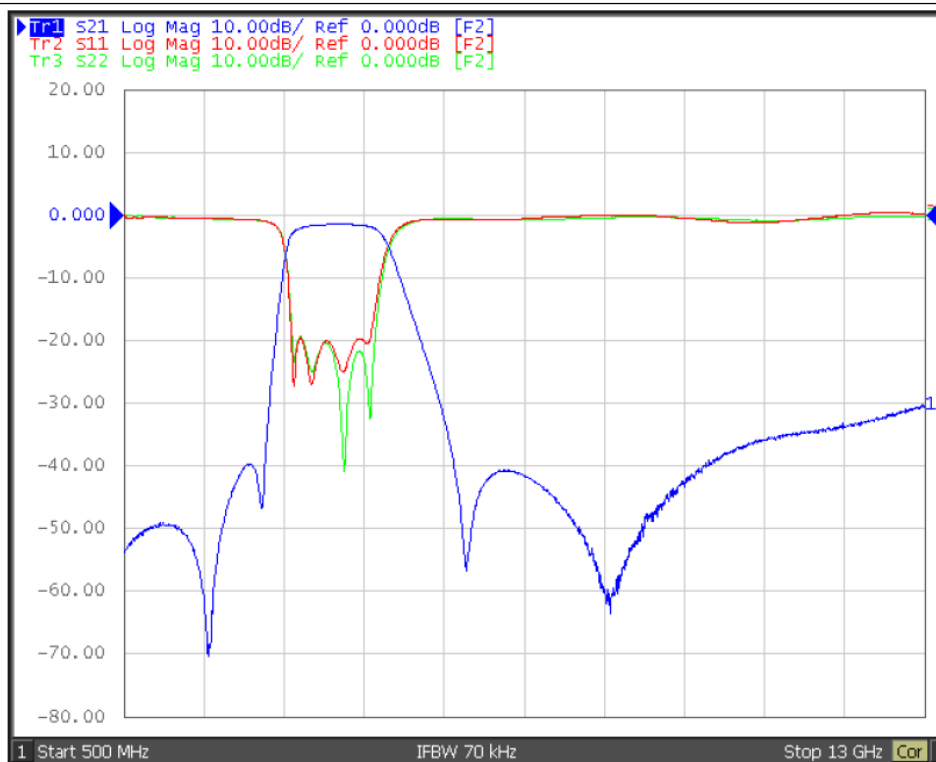


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Evaluation Board Reference



Electrical Characteristics

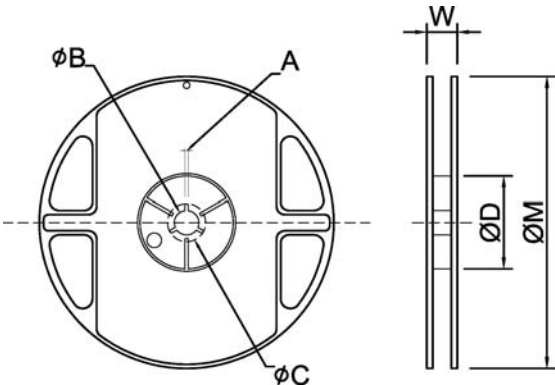


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Taping Specifications

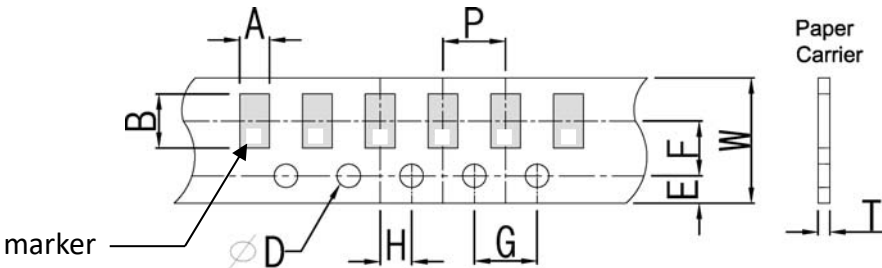
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ψB	ψC	ψD	W	ψM
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

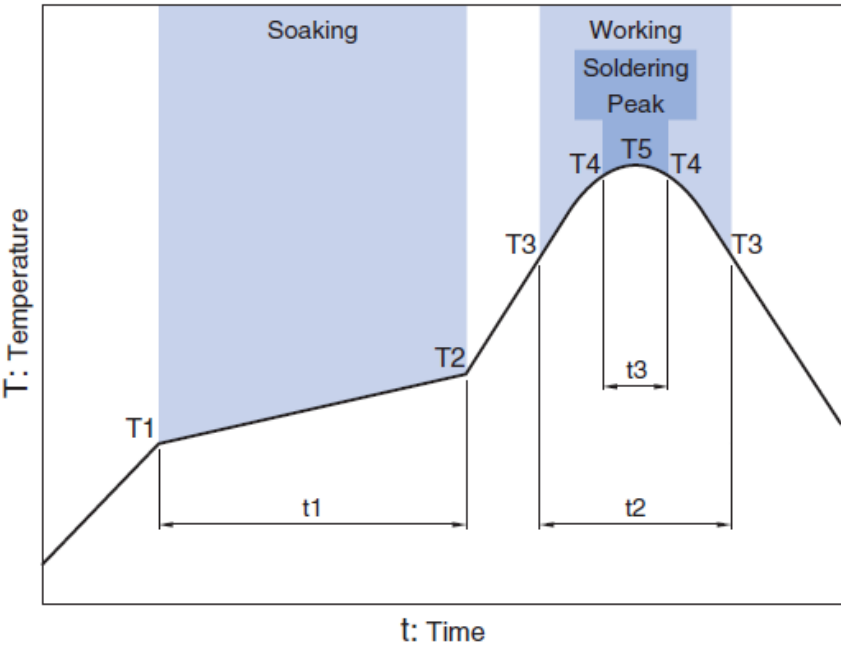


Packaging	Type	A	B	W	E	F	G	H	T	ϕD	P
Paper Type	1608	1.40±0.20	2.20±0.20	8.0±0.20	1.75±0.10	3.0±0.05	4.0±0.10	2.0±0.05	0.75±0.10	1.50 ^{+0.10} ₋₀	4.0±0.1

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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.