

2.4/5GHz 1608 Diplexer: DPX1608R24554K67

Applications:

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

Features

SMD, high reliability, ultra Impact...

Part number

DPX 1608 R 2455 4K 67
 (1) (2) (3) (4) (5)

(1)Size Code	1.6x0.8mm
(2) Packing	Tape and reel
(3) Frequency	2.4/5GHz
(4) Packing Number	4K
(5)Type	67

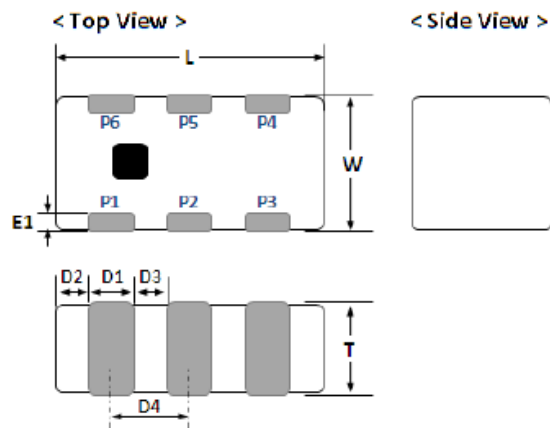
Electrical Specification

DESCRIPTION	VALUE	
Pass Band	LOW Band	High Band
	2400~2500MHz	4900~6000MHz
Insertion Loss	0.50dB (Max)	0.75dB (Max)
Return Loss	12.0dB(Min)	12.0dB(Min)
Attenuation		27dB(Min).@2400~2500MHz
	30dB(Min).@4800~5000MHz	27dB(Min).@10300~11700MHz
	32dB(Min).@7200~7500MHz	20dB(Min).@15450~16200MHz
Isolation	32dB(Min).@2400~2500MHz	
	32dB(Min).@4800~5950MHz	
Operating Temperature	-40 ~ +85 °C	

The specification is defined on EVB.

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Dimension and Terminal Configuration



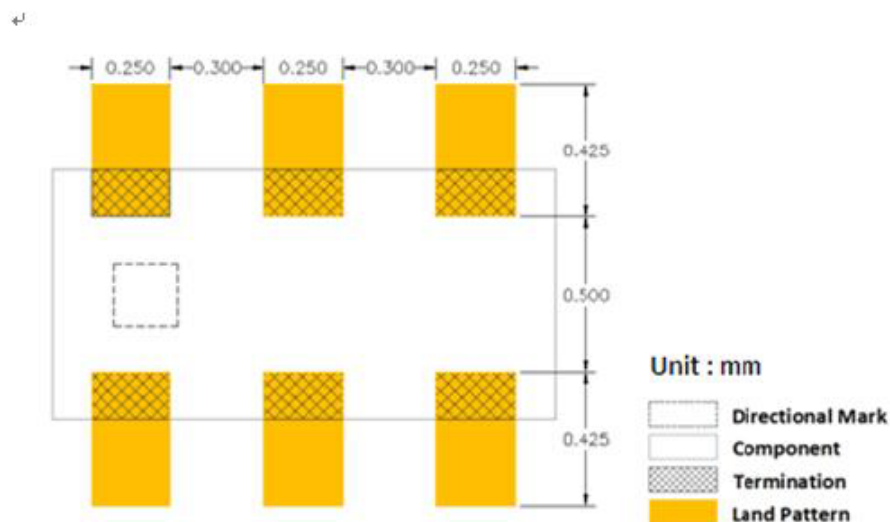
Dimension (mm)	
L (mm)	1.60 ± 0.15
W (mm)	0.80 ± 0.15
T (mm)	0.60 ± 0.15
D1 (mm)	0.25 ± 0.10
D2 (mm)	0.125 ± 0.10
D3 (mm)	0.30 ± 0.10
E1 (mm)	0.15 ± 0.10

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

*P.S : Symmetrical,
No direction*

Evaluation Board Reference

Recommended Land Pattern

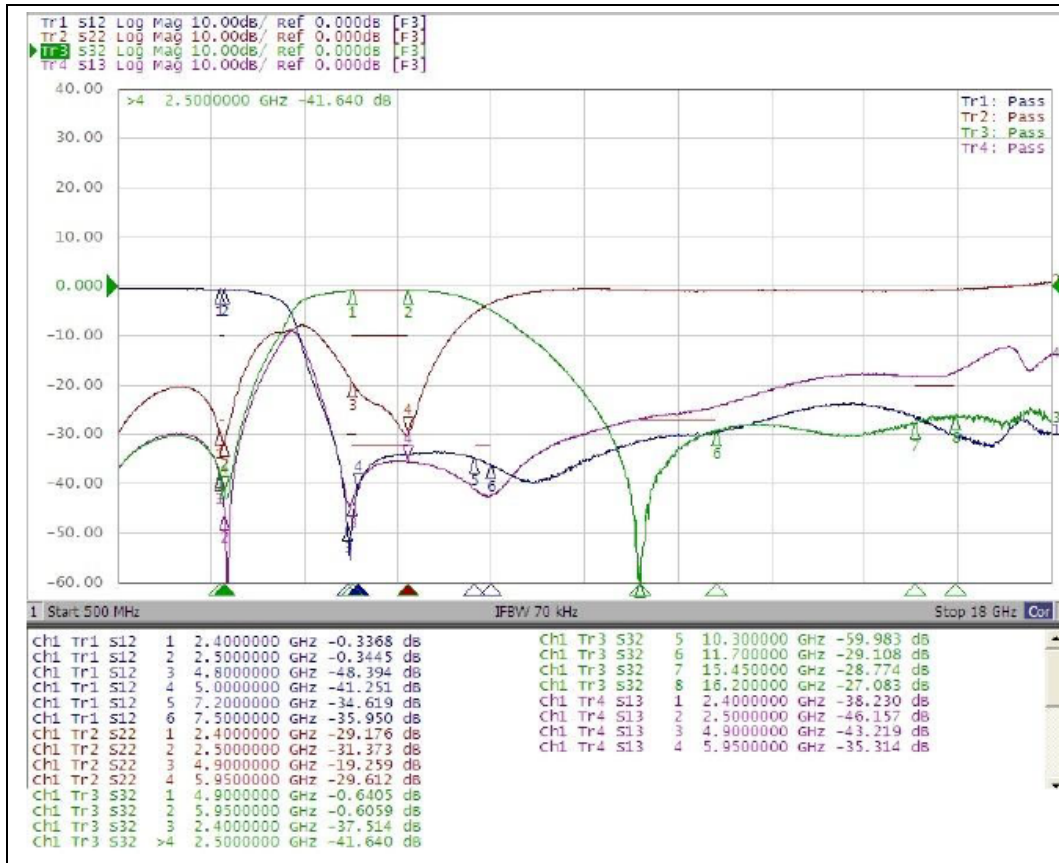


Recommended PCB Pattern



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Electrical Characteristics



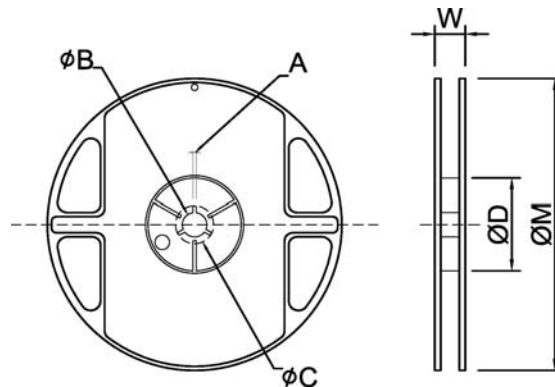
- Measured on Agilent E5071C Network Analyzer
- Common port : Port 2 (Return loss : S22)
- Low band port : Port 1 (Low band Insertion loss S21, and attenuation at high band)
- High band port : Port 3 (High band Insertion loss S32, and attenuation at low band)

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Taping Specifications

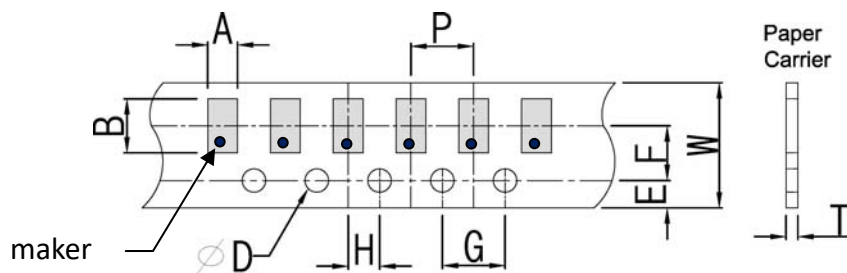
Reel and Taping Specification

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

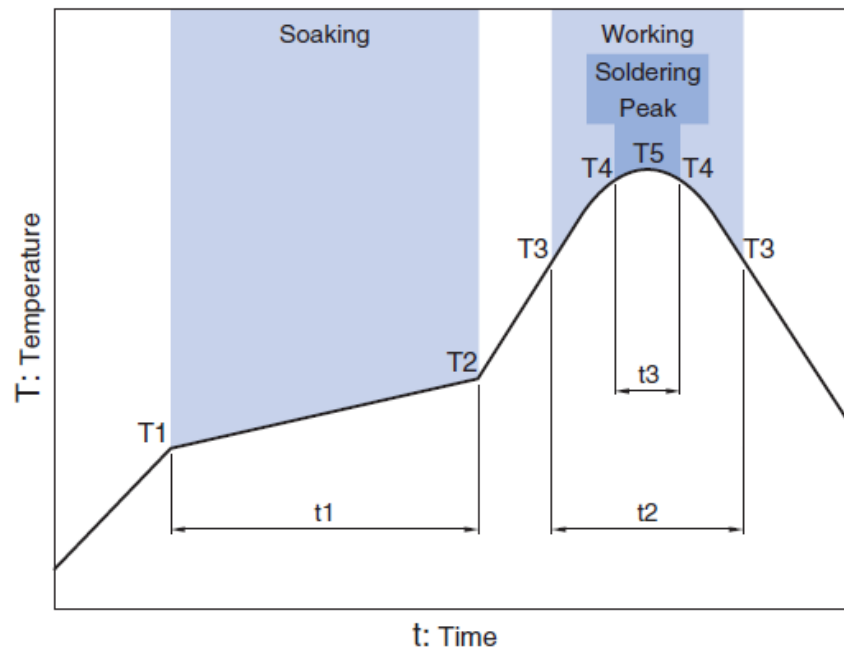


Packaging	Type	A	B	W	E	F	G	H	T	ψD	P
Paper Type	1608	1.40 ± 0.20	2.20 ± 0.20	8.0 ± 0.20	1.75 ± 0.10	3.0 ± 0.05	4.0 ± 0.10	2.0 ± 0.05	0.75 ± 0.10	$1.50^{+0.10}_{-0}$	4.0 ± 0.1

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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.