

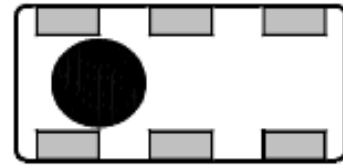
GPS & Wifi 1608 Diplexer: DPX1608R15244K01

Applications:

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

Features

SMD, high reliability, ultra compact...



Part number

DPX 1608 R 1524 4K 01
(1) (2) (3) (4) (5)

(1)Size Code	1.6x0.8mm
(2) Packing	Tape and reel
(3) Frequency	1575 & 2400
(4) Packing Number	4K
(5)Type	01

Electrical Specification

Low-Band

Parameter	Frequency (MHz)	Spec		
		Min.	Typ.	Max.
Insertion Loss (dB)	704 to 960	-	0.29	0.4
	1572 to 1578	-	0.35	0.4
	1570 to 1610	-	0.37	0.45
Insertion Loss (dB) (-40 to +85 °C)	704 to 960	-	-	0.5
	1572 to 1578	-	-	0.5
	1570 to 1610	-	-	0.55
VSWR	704 to 960	-	1.11	1.92
	1572 to 1578	-	1.19	1.92
	1570 to 1610		1.20	1.92
Attenuation (dB)	2400 to 2500	15	19	-
	2500 to 2690	10	14	-
	4900 to 5150	17	29	-
	5150 to 5850	17	21	-
	5850 to 5950	16	20	-

Ta = +25+/-5°C

High-Band

Parameter	Frequency (MHz)	Spec		
		Min.	Typ.	Max.
Insertion Loss (dB)	2400 to 2500	-	0.39	0.55
	2500 to 2690	-	0.48	0.55
	4900 to 5150	-	0.24	0.5
	5150 to 5850	-	0.23	0.5
	5850 to 5950	-	0.25	0.5
Insertion Loss (dB) (-40 to +85 °C)	2400 to 2500	-	-	0.65
	2500 to 2690	-	-	0.65
	4900 to 5150	-	-	0.6
	5150 to 5850	-	-	0.6
	5850 to 5950	-	-	0.6
VSWR	2400 to 2500	-	1.12	1.92
	2500 to 2690	-	1.26	1.92
	4900 to 5150	-	1.47	1.92
	5150 to 5850	-	1.37	1.92
	5850 to 5950	-	1.19	1.92
Attenuation (dB)	704 to 960	12	14	-
	1572 to 1578	20	23	-
	1570 to 1610	20	23	-

Ta = +25+/-5°C

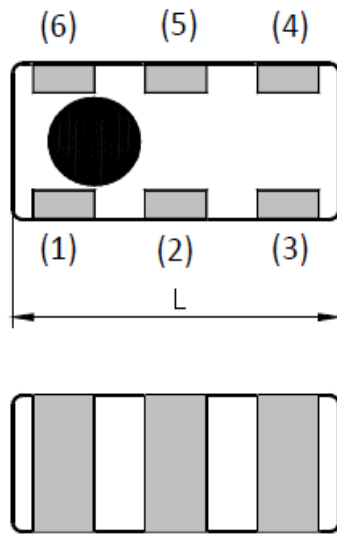
Common

Parameter		Spec		
		Min.	Typ.	Max.
Power Handling (W) 50% Duty		-		4

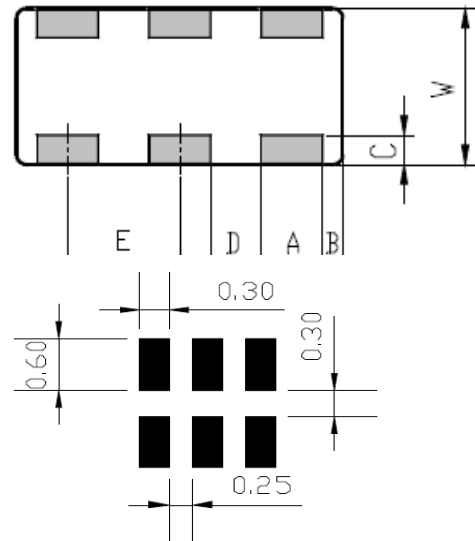
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Dimension and Terminal Configuration

[Top View]



[Bottom View]



Dimensions (mm)

L	W	T	A	B	C	D	E
1.60	0.80	0.60	0.30	0.10	0.15	0.25	0.55
+/-0.15	+/-0.15	+/-0.10	+/-0.15	+0.15 /-0.10	+/-0.15	+/-0.15	+/-0.10

Terminal functions

(1)	GND
(2)	Common Port
(3)	GND

(4)	Low-Band Port
(5)	GND
(6)	High-Band Port

■ TEMPERATURE RANGE

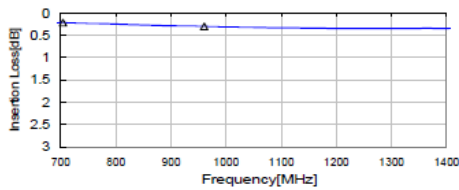
Operating temperature	Storage temperature
-40 to +85 °C	-40 to +85 °C

■ TERMINATION FINISH

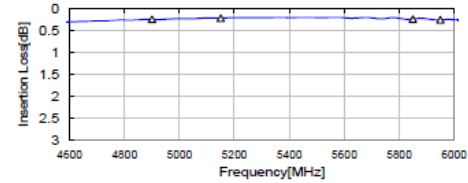
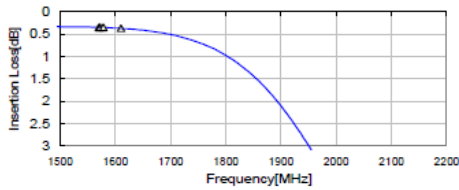
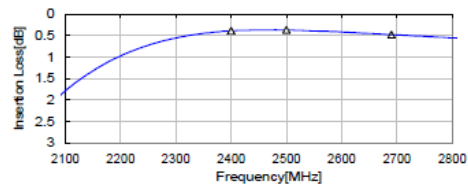
Material
Sn plate

FREQUENCY CHARACTERISTICS

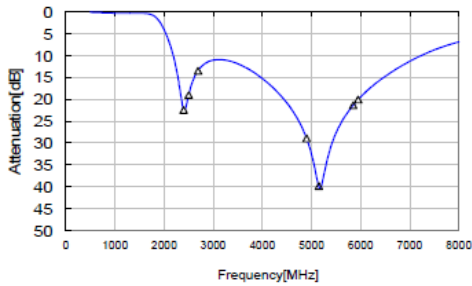
Low-Band Port Insertion Loss



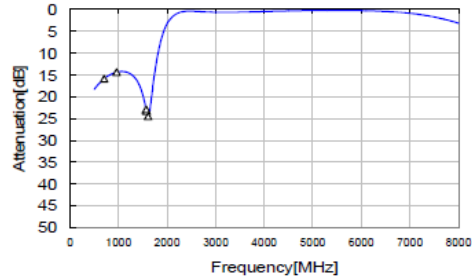
High-Band Port Insertion Loss



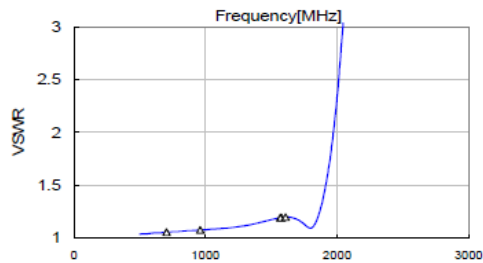
Low-Band Port Attenuation



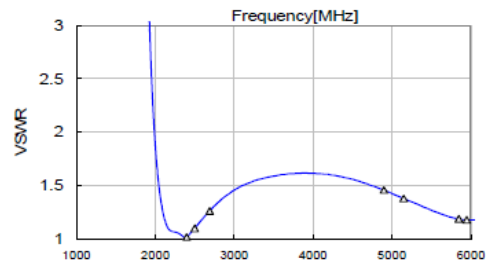
High-Band Port Attenuation



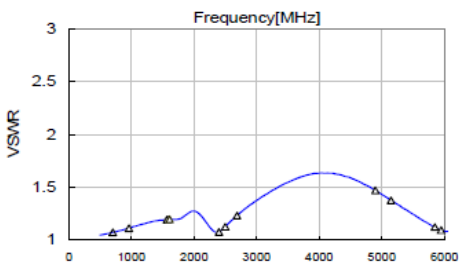
Low-Band Port VSWR



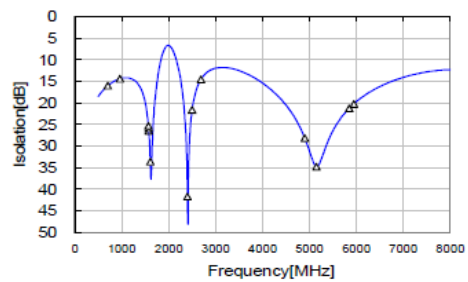
High-Band Port VSWR



Common Port VSWR



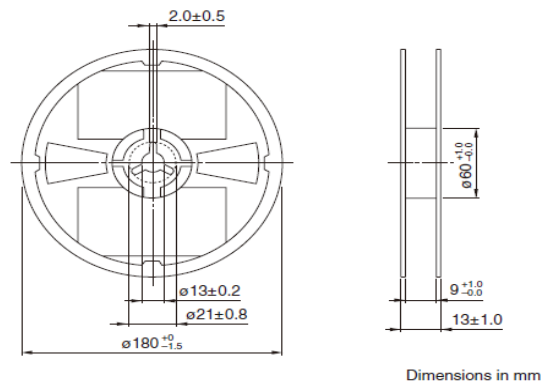
Isolation (Low - High)



Taping Specifications

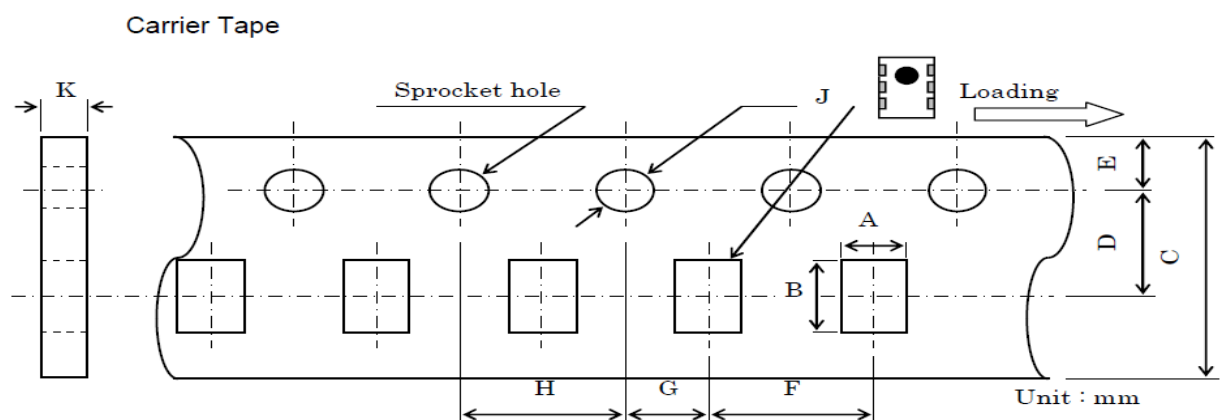
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ϕB	ϕC	ϕD	W	ϕM
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

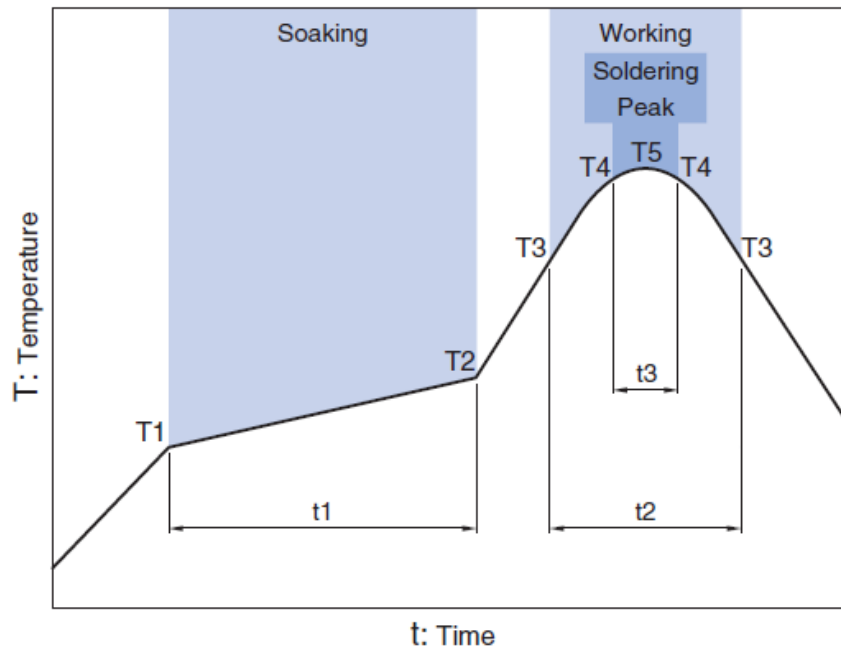


Packaging	Type	A	B	C	D	E	F	G	H	J	K
Paper Type	1608	0.97 ± 0.20	1.80 ± 0.20	8.0 ± 0.20	3.5 ± 0.05	1.75 ± 0.10	4.0 ± 0.10	2.0 ± 0.05	4.0 ± 0.1	$1.50^{+0.10}_{-0}$	0.75 ± 0.10

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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.

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