



Multilayer Diplexer

For 698-960MHz / 1710-2690MHz

DPX252690DT-5031A1

2.5x2.0mm [EIA 1008]*

* Dimensions Code JIS[EIA]

Multilayer Diplexer

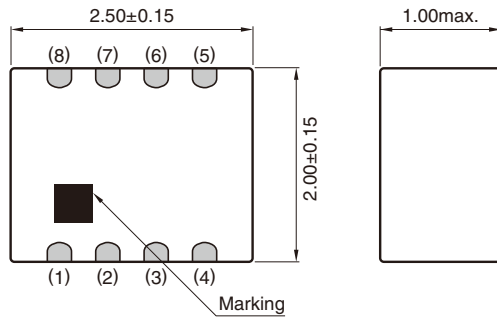
Conformity to RoHS Directive

For 698-960MHz / 1710-2690MHz

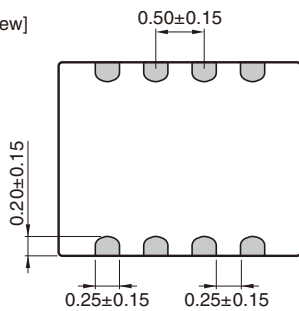
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SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

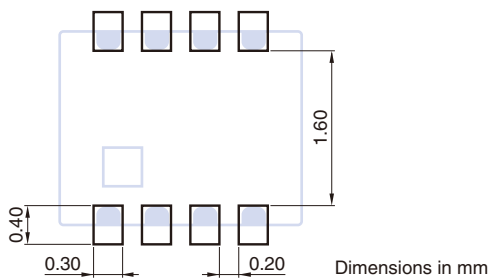


Terminal functions

1	GND
2	GND
3	Common
4	GND
5	High-band
6	GND
7	GND
8	Low-band

Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://product.tdk.com/en/environment/rohs/>

- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

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ELECTRICAL CHARACTERISTICS

LOW-BAND

Item	Frequency Range (MHz)	Min.	Typ.	Max.	
Insertion Loss (dB)	698 to 960	—	0.28	0.36	
	698 to 960	—	—	0.45 (−40 to +85°C)	
Return Loss (dB)	698 to 960	20	25	—	
	1574 to 1605	12	28	—	
	1648 to 1698	16	30	—	
	1760 to 1830	21	26	—	
	2472 to 2494	28	31	—	
	2495 to 2547	13	31	—	
	2640 to 2745	18	31	—	
	3296 to 3396	16	25	—	
	3520 to 3660	21	26	—	
	4120 to 4245	26	30	—	
	4400 to 4575	28	33	—	
	4944 to 5094	35	48	—	
	5280 to 5490	28	35	—	
	5768 to 5943	25	33	—	
	6160 to 6405	22	36	—	
Attenuation (dB)	6592 to 6792	22	27	—	
	7040 to 7320	15	18	—	
	7416 to 7641	12	14	—	
	7920 to 8235	4	10	—	
	Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

HIGH-BAND

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	1710 to 1980	—	0.42	0.60
	2025 to 2690	—	0.57	0.70
	1710 to 1980	—	—	0.70 (−40 to +85°C)
	2025 to 2690	—	—	0.80 (−40 to +85°C)
Return Loss (dB)	1710 to 2690	14	16	—
	698 to 960	24	27	—
	815 to 894	30	33	—
	3296 to 3396	0	10	—
	3420 to 3570	13	18	—
	3700 to 3820	12	22	—
	3840 to 3960	15	20	—
	4120 to 4245	14	20	—
	4400 to 4575	14	22	—
	4944 to 5094	21	34	—
	5130 to 5335	30	48	—
	5550 to 5730	30	43	—
	5760 to 5845	34	44	—
	5846 to 5940	17	39	—
	6160 to 6405	4	25	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

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ELECTRICAL CHARACTERISTICS

COMMON

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Isolation (dB)	698 to 915	25	27	—
	915 to 960	24	27	—
	1710 to 2690	25	27	—
	2112 to 2148	25	28	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

TEMPERATURE RANGE

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

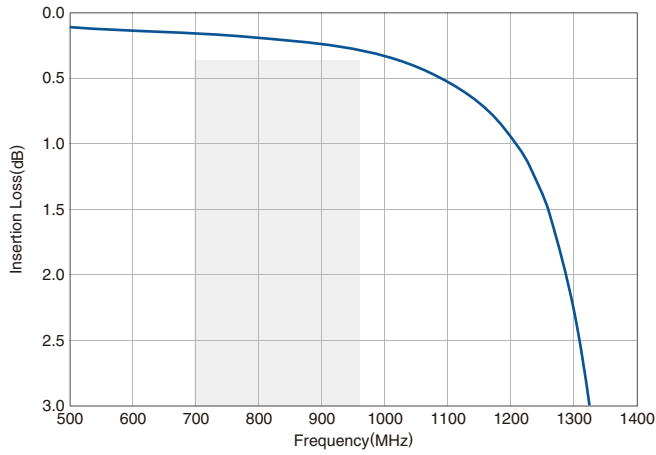
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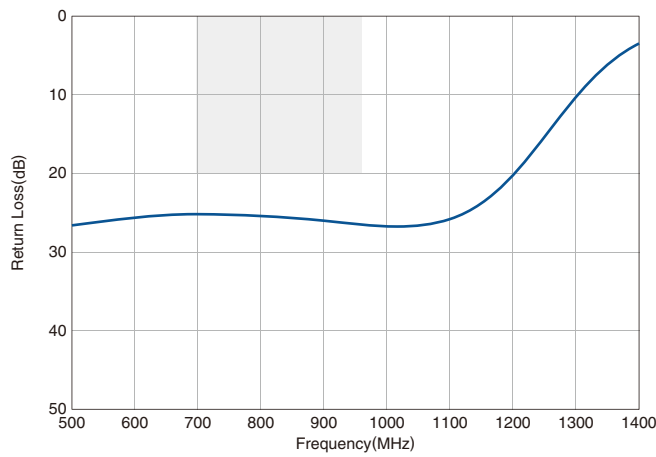
FREQUENCY CHARACTERISTICS

LOW-BAND

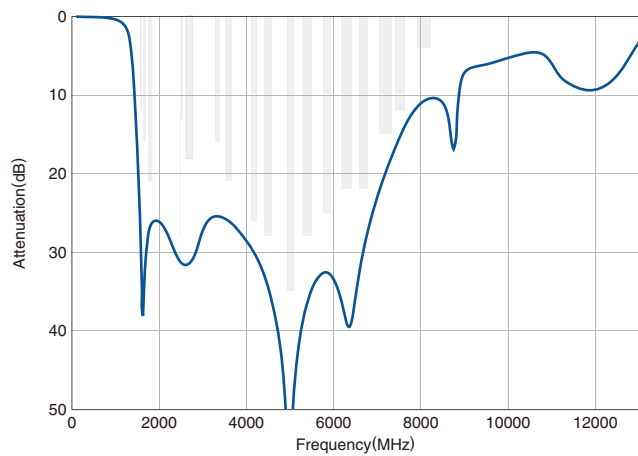
Insertion Loss



Return Loss

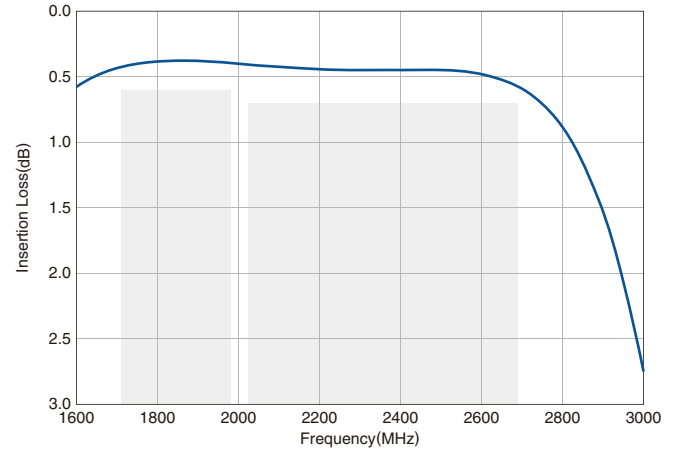


Attenuation

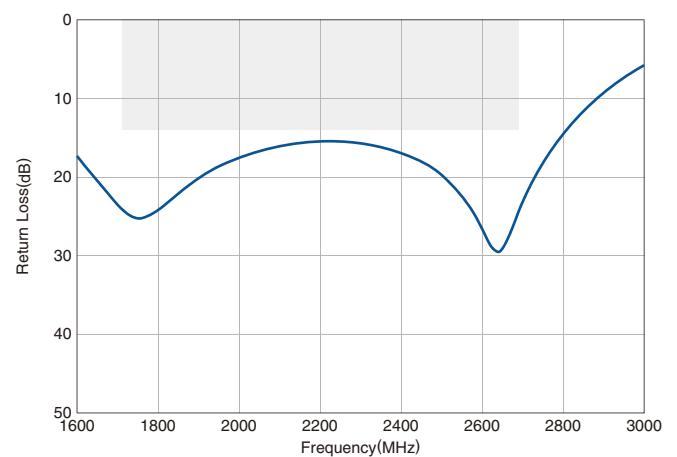


HIGH-BAND

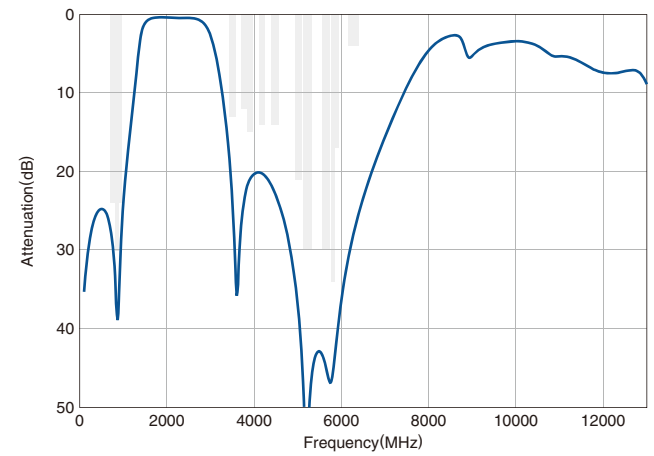
Insertion Loss



Return Loss



Attenuation



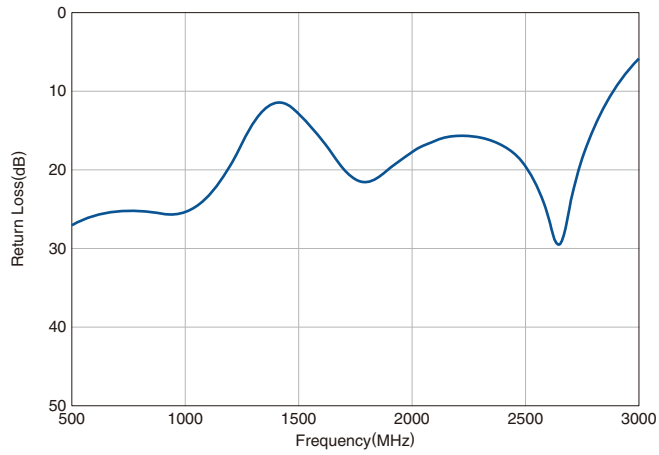
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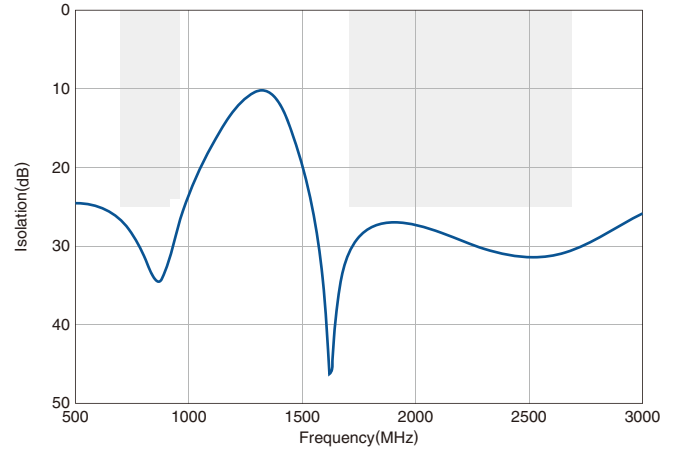
FREQUENCY CHARACTERISTICS

COMMON

Return Loss



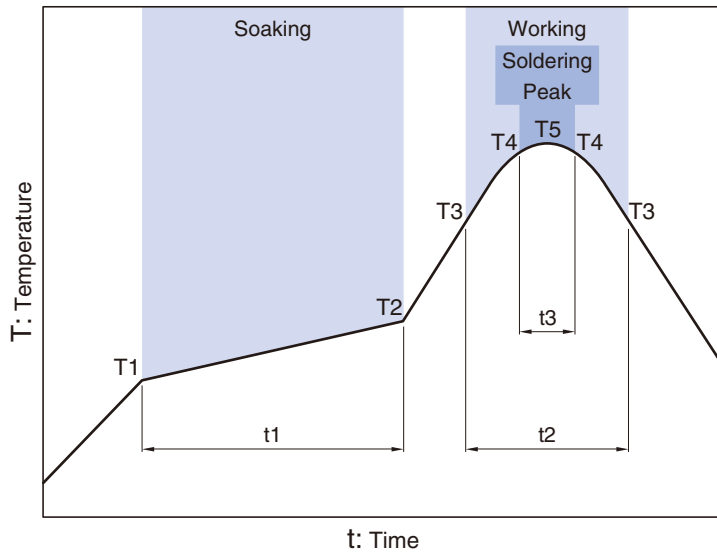
Isolation



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RECOMMENDED REFLOW PROFILE



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

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使用注意事项

在使用本产品前，请务必随附采购规格书。

安全注意事项

使用本产品时，请注意安全事项。

注意

本产品目录中记载的产品是指在通用标准用途意义上使用于一般电子设备（AV 设备，通信设备，家电产品，娱乐设备，计算机设备，个人设备，办公设备，计测设备，工业机器人），并且该一般电子设备要在通常的操作和使用方法下使用。

对于需要高度安全性和可靠性的，或者设备的故障，误动作，运转不良可能会给人的生命，身体及财产等造成损害，以及有可能产生莫大社会影响的以下用途（以下称‘特定用途’）中的适用性，性能发挥，品质，本公司不予保证。

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|-------------------------|--------------------|
| (1) 航天航空设备 | (8) 公共信息处理设备 |
| (2) 交通运输设备（汽车，电动火车，船舶等） | (9) 军事设备 |
| (3) 医疗设备 | (10) 电加热设备、燃烧设备 |
| (4) 发电控制设备 | (11) 防灾 / 预防犯罪设备 |
| (5) 原子能源相关设备 | (12) 安全设备 |
| (6) 海底设备 | (13) 其他不被视为常规用途的用途 |
| (7) 交通控制设备 | |

为了能够更安全地使用产品，对使用本产品目录中所记载产品的设备进行设计时，请确保符合该设备的使用用途及状态的保护回路和装置，并设置备用回路等。