



Multilayer Low Pass Filter (2in1)

For 824-915MHz / 1710-1910MHz

DEA161910LT-9031A1

1.6x0.8mm [EIA 0603]*

* Dimensions Code JIS[EIA]

Caution

该产品目录中的产品将停产或已停产

停产发布日期	Jun. 4, 2020
最后订单日期	Dec. 31, 2021
最后出货日期	Mar. 31, 2022

关于替换产品信息，请参考本公司 Web 网站。

Multilayer Low Pass Filter (2in1)

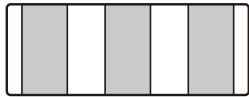
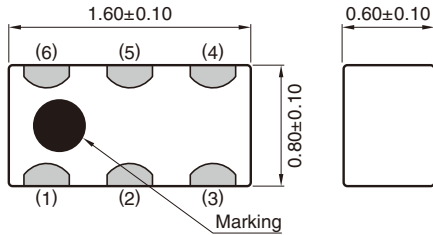
Conformity to RoHS Directive

For 824-915MHz / 1710-1910MHz

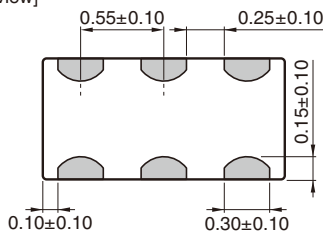
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SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

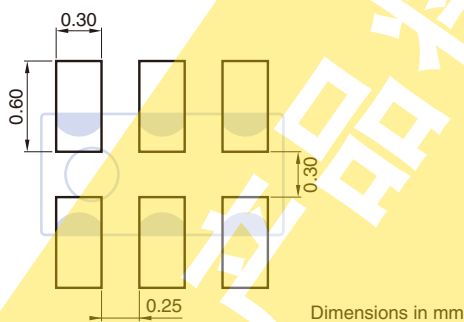


Terminal functions

1	High Band Input port
2	GND
3	Low Band Input port
4	Low Band Output port
5	GND
6	High Band Output port

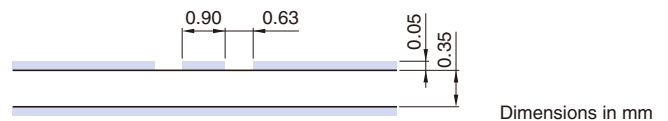
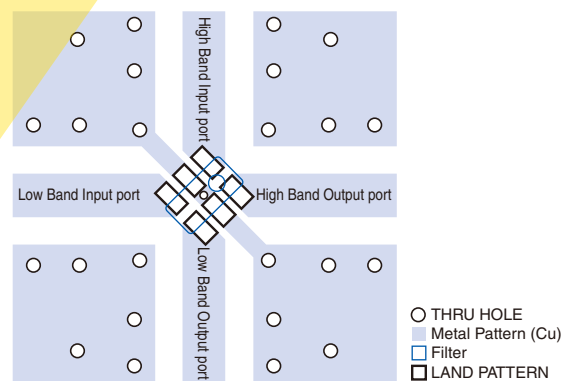
Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

EVALUATION BOARD



Dimensions in mm

Line width to be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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)	824 to 915	—	0.47	0.60
	824 to 915	—	—	0.80 (−40 to +85°C)
Return Loss (dB)	824 to 915	10.03	29.2	—
	1648 to 1830	30	40.8	—
Attenuation (dB)	2472 to 2745	25	34.8	—
	3296 to 3660	20	28.3	—
	4120 to 4575	13	19.5	—
	4944 to 6405	7	15.0	—
	6500 to 12750	3	6.7	—
Characteristic Impedance (Ω)	50 (Nominal)			

· Ta: +25±5°C

HIGH-BAND

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	1710 to 1910	—	0.43	0.60
	1710 to 1910	—	—	0.80 (−40 to +85°C)
Return Loss (dB)	1710 to 1910	10.03	17.0	—
	3420 to 3820	30	40.3	—
Attenuation (dB)	5130 to 5730	20	26.1	—
	6840 to 9550	7	12.0	—
	10260 to 12750	3	8.3	—
Characteristic Impedance (Ω)	50 (Nominal)			

· Ta: +25±5°C

TEMPERATURE RANGE

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

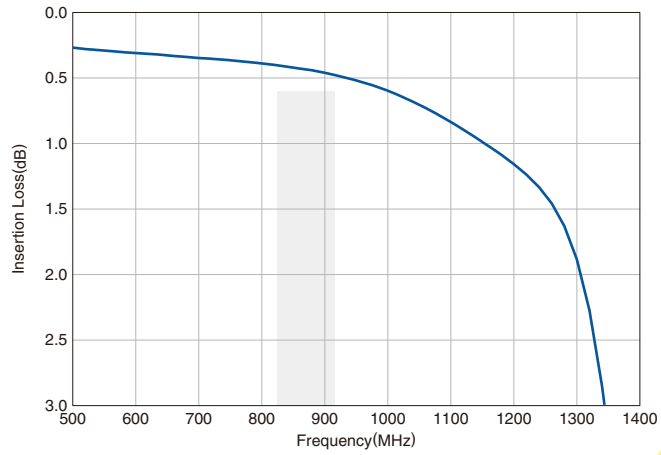
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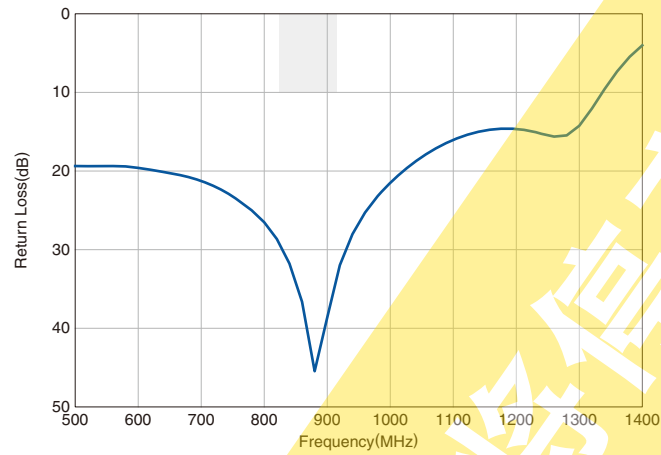
FREQUENCY CHARACTERISTICS

LOW-BAND

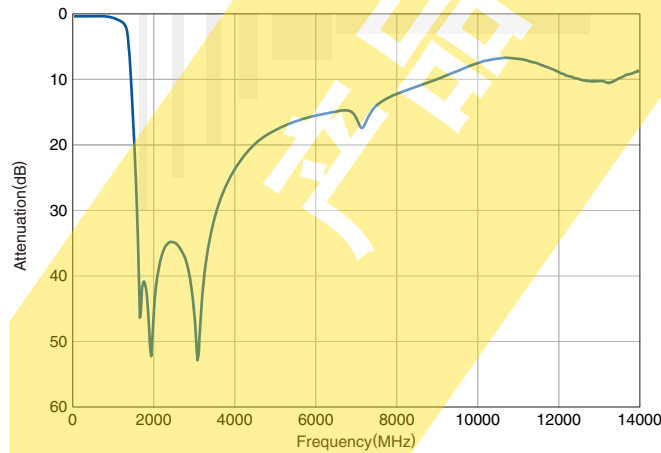
Insertion Loss



Return Loss

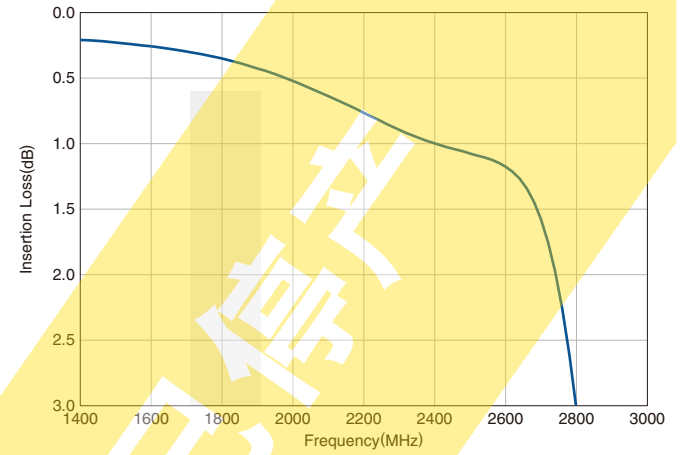


Attenuation

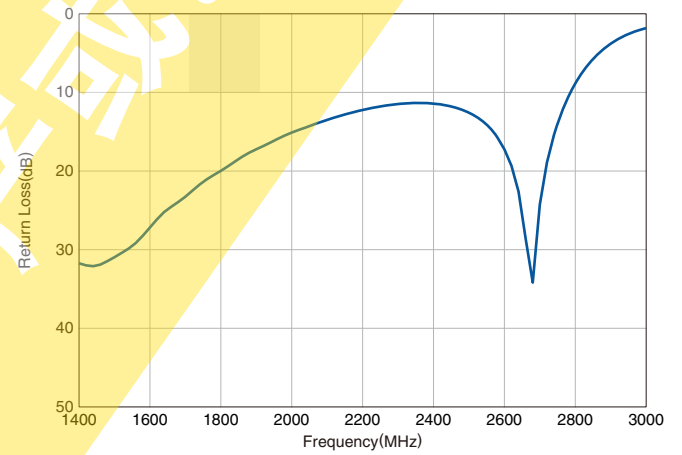


HIGH-BAND

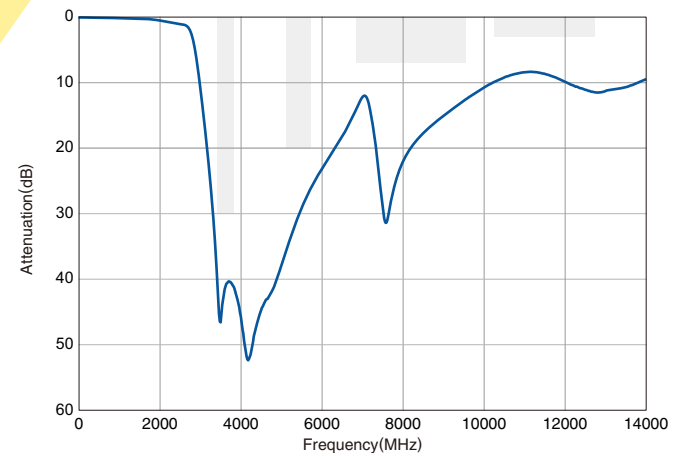
Insertion Loss



Return Loss

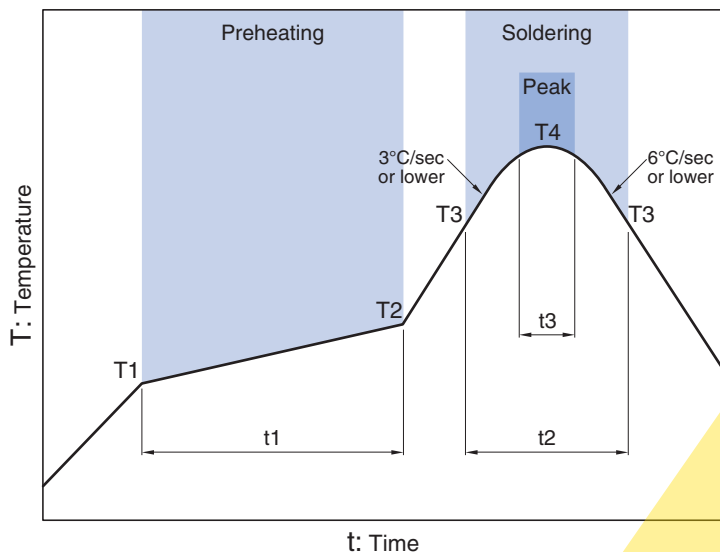


Attenuation



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RECOMMENDED REFLOW PROFILE



Preheating			Soldering			
			Critical zone (T3 to T4)		Peak	
Temp.	Temp.	Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3*
150°C	200°C	60 to 120sec	217°C	60 to 120sec	240 to 260°C	30sec max.

* t3 : Time within 5°C of actual peak temperature
 The maximum number of reflow is 3.

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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。

产品被在本产品目录的范围、条件之外，或者在特定用途中使用，本公司对它造成的损害和信赖性不承担任何责任。

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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。