积层带通滤波器

2.4GHz W-LAN/Bluetooth用

DEA系列

Type: **DEA202450BT-1261A2 (2.0×1.25×0.55mm)**
DEA202441BT-2106A2 (2.0×1.25×0.7mm max.)
DEA202450BT-3201B2 (2.0×1.25×0.8mm max.)
DEA202450BT-1213C1 (2.0×1.25×0.95mm)
DEA202450BT-1275A1 (2.0×1.25×0.95mm)
DEA202450BT-2038A1 (2.0×1.25×0.95mm)
DEA202450BT-1283A2 (2.0×1.25×1.05mm max.)

Issue date: December 2010

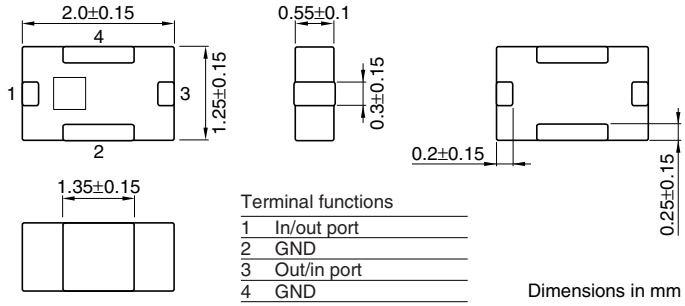
TDK

积层贴片带通滤波器
蓝牙和2.4GHz W-LAN用

RoHS指令对应产品

DEA 系列　DEA202450BT-1261A2

形状 · 尺寸

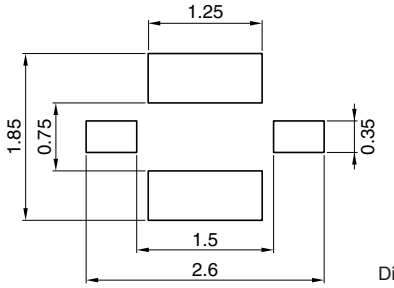


Terminal functions

1	In/out port
2	GND
3	Out/in port
4	GND

Dimensions in mm

推荐印刷电路板图样



Dimensions in mm

电气特性

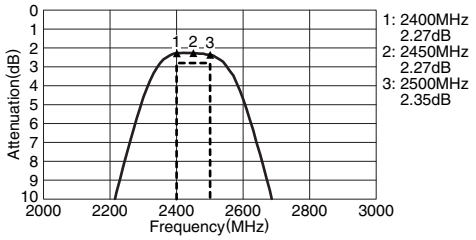
项目			最小值	代表值	最大值
插入损耗	[2400 to 2500MHz]	(dB)	—	—	2.8
回波损耗	[2400 to 2500MHz]	(dB)	9.5	—	—
衰减量	[695 to 800MHz]	(dB)	25	—	—
	[1910MHz]	(dB)	25	—	—
	[3200MHz]	(dB)	35	—	—
	[4800 to 5000MHz]	(dB)	20	—	—
	[7200 to 7500MHz]	(dB)	20	—	—
输出输入端口的阻抗	[2400 to 2500MHz]	(Ω)	—	50	—
温度范围	工作时	(°C)	–30	—	+80
	保存时	(°C)	–30	—	+80

· Ta:+25°C

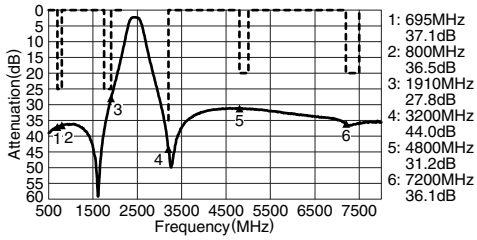
● RoHS 指令的对应：表示除了依据 EU Directive 2002/95/EC 免除的用途之外，未使用铅，镉，汞，六价铬及特定溴系难燃剂 PBB， PBDE 等。

频率特性

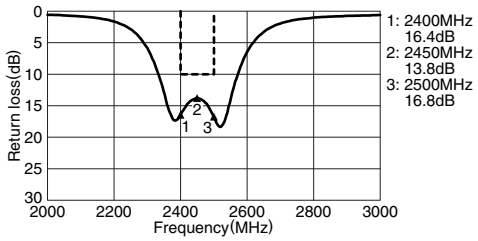
插入损耗



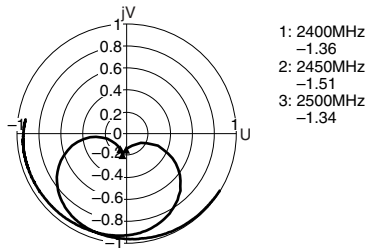
衰减量



回波损耗



VSWR



焊接

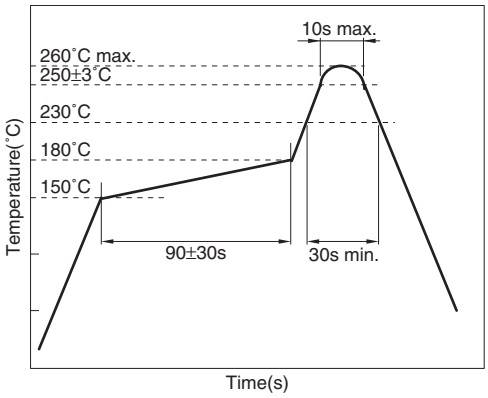
●焊接请按照下列示意图进行红外再流焊。

●而且，请不要使用点式加热焊接或烙铁。

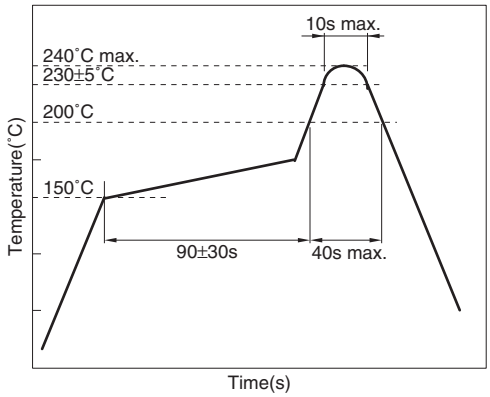
推荐焊接条件

回流焊接施工方法

A. 当使用无铅焊料时



B. 当使用锡铅焊料时

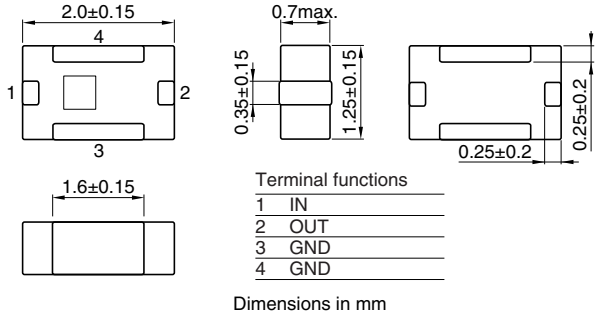


积层贴片带通滤波器
蓝牙和2.4GHz W-LAN用

RoHS指令对应产品

DEA 系列　DEA202441BT-2106A2

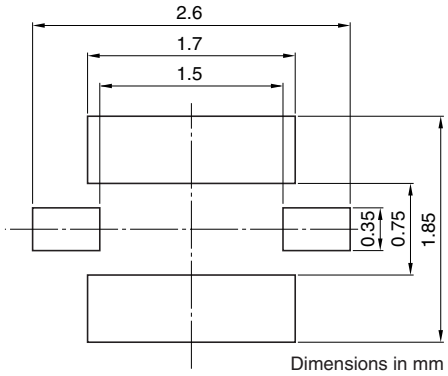
形状·尺寸



Terminal functions	
1	IN
2	OUT
3	GND
4	GND

Dimensions in mm

推荐印刷电路板图样



Dimensions in mm

电气特性

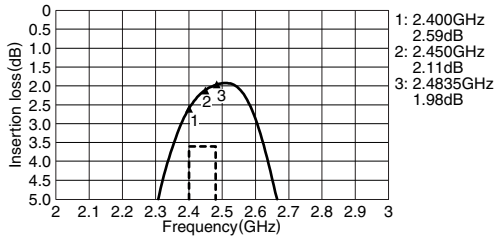
项目			最小值	代表值	最大值
RF输入电力	[2400 to 2483.5MHz]	(dBm)	—	—	24
插入损耗	[2400 to 2483.5MHz]	(dB)	—	2.7	3.6
单端输出特性阻抗	[2400 to 2483.5MHz]	(Ω)	50[Nominal]		
单端输入特性阻抗	[2441MHz]	(Ω)	50[Nominal]		
输入VSWR	[2400 to 2483.5MHz]		—	1.3	1.9
输出VSWR	[2400 to 2483.5MHz]		—	1.3	1.9
频带纹波	[2400 to 2483.5MHz]	(dB)	—	0.7	1.1
衰减量	[DC to 746MHz]	(dB)	30	43	—
	[746 to 764MHz]	(dB)	30	43	—
	[776 to 794MHz]	(dB)	30	42	—
	[824 to 849MHz]	(dB)	30	42	—
	[869 to 894MHz]	(dB)	30	40	—
	[894 to 915MHz]	(dB)	30	40	—
	[925 to 960MHz]	(dB)	30	40	—
	[1570 to 1580MHz]	(dB)	28	37	—
	[1710 to 1785MHz]	(dB)	33	37	—
	[1805 to 1850MHz]	(dB)	33	38	—
	[1850 to 1910MHz]	(dB)	33	38	—
	[1920 to 1980MHz]	(dB)	34	40	—
	[2110 to 2170MHz]	(dB)	28	33	—
	[4000 to 4800MHz]	(dB)	20	33	—
	[4800 to 4967MHz]	(dB)	29	33	—
	[4967 to 7200MHz]	(dB)	20	34	—
	[7200 to 7451MHz]	(dB)	22	44	—
	[7451 to 8000MHz]	(dB)	10	17	—
温度范围	工作时	(°C)	–40	—	+85
	保存时	(°C)	–40	—	+85

· Ta:+25°C

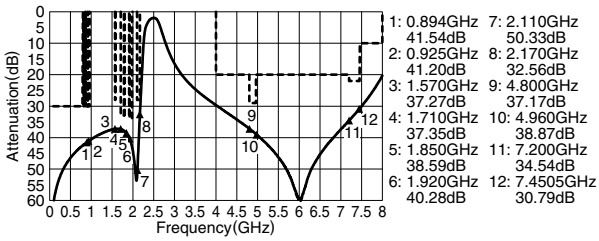
● RoHS 指令的对应：表示除了依据 EU Directive 2002/95/EC 免除的用途之外，未使用铅，镉，汞，六价铬及特定溴系难燃剂 PBB， PBDE 等。

频率特性

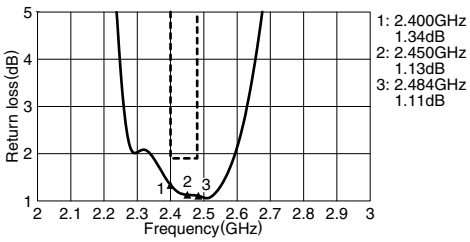
插入损耗



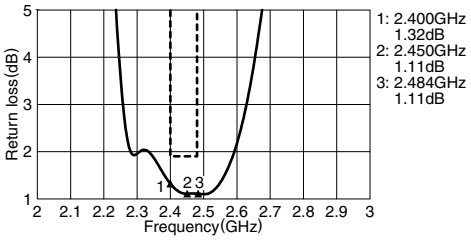
衰减量



S11 VSWR



S22 VSWR

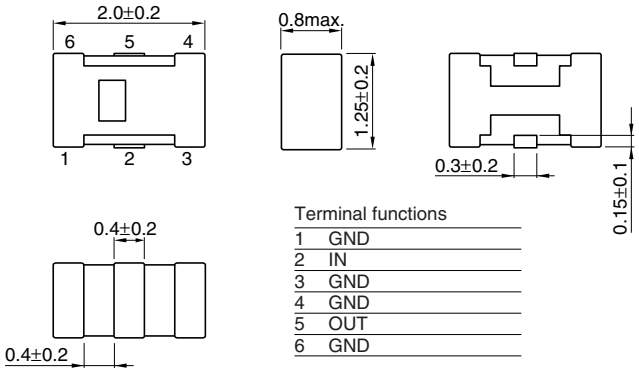


积层贴片带通滤波器
蓝牙和2.4GHz W-LAN用

RoHS指令对应产品

DEA 系列　DEA202450BT-3201B2

形状 · 尺寸

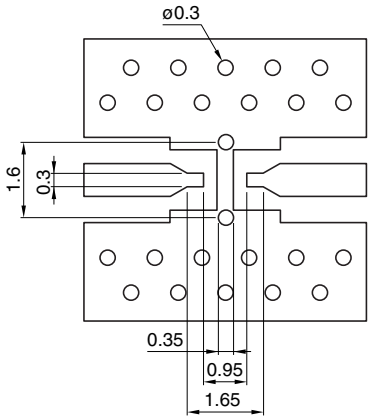


Terminal functions	
1	GND
2	IN
3	GND
4	GND
5	OUT
6	GND

Dimensions in mm

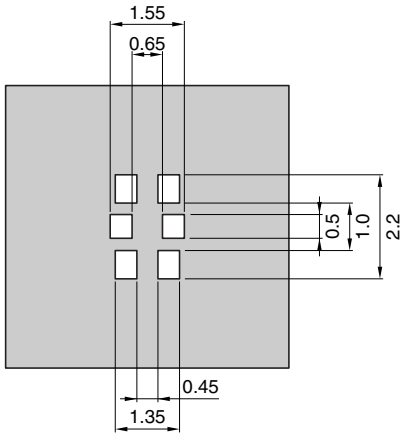
推荐印刷电路板图样

焊盘



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

焊料抗蚀剂



Dimensions in mm

电气特性

频率范围 （频带）		2400 to 2500MHz
插入损耗	[+25°C]	2.5dB max.
回波损耗	[2400 to 2500MHz]	10dB min.
衰减量	[880 to 915MHz]	40dB min.
	[1710 to 1850MHz]	40dB min.
	[1850 to 1910MHz]	40dB min.
	[1920 to 1990MHz]	40dB min.
	[2110 to 2170MHz]	26dB min.
	[4800 to 5000MHz]	30dB min.
	[7200 to 7500MHz]	30dB min.
温度范围	工作时	–40 to +85°C
	保存时	–40 to +85°C

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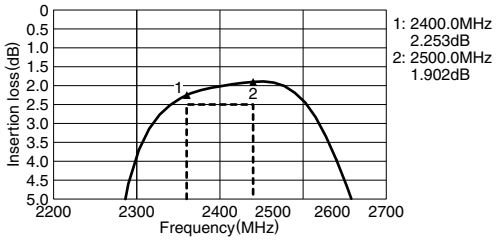
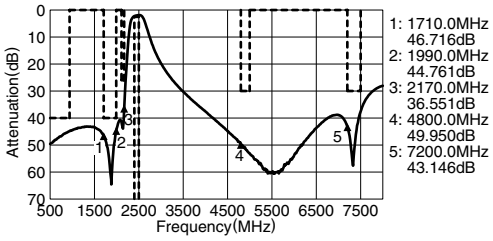
频率特性

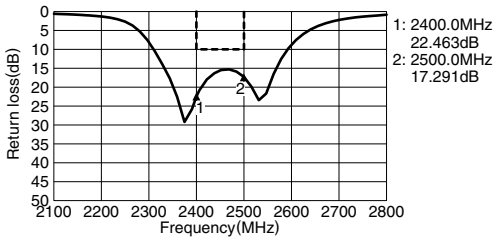
插入损耗



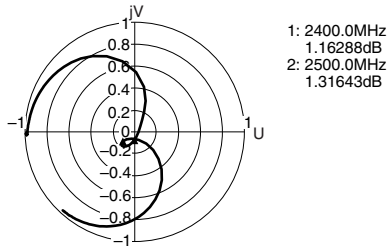
衰减量



回波损耗



VSWR

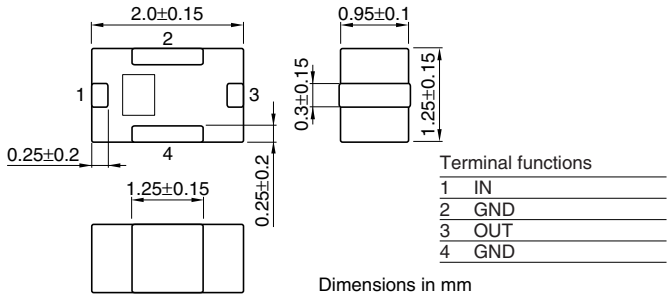


积层贴片带通滤波器
蓝牙和2.4GHz W-LAN用

RoHS指令对应产品

DEA 系列　DEA202450BT-1213C1

形状 · 尺寸

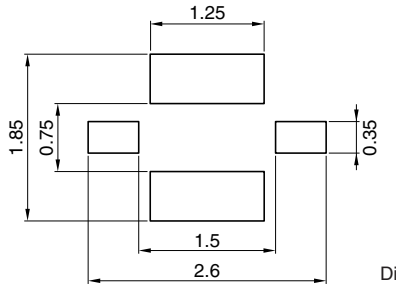


Terminal functions

1	IN
2	GND
3	OUT
4	GND

Dimensions in mm

推荐印刷电路板图样



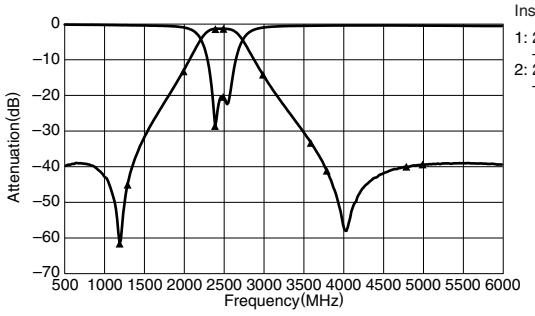
Dimensions in mm

电气特性

项目			最小值	代表值	最大值
插入损耗	[2400 to 2500MHz]	(dB)	—	—	1.5
回波损耗	[2400 to 2500MHz]	(dB)	10	—	—
衰减量	[1200 to 1300MHz]	(dB)	25	—	—
	[2000MHz]	(dB)	10	—	—
	[3000MHz]	(dB)	12	—	—
	[3600 to 3800MHz]	(dB)	30	—	—
	[4800 to 5000MHz]	(dB)	34	—	—
温度范围	工作时	(°C)	–40	—	+85
	保存时	(°C)	–40	—	+85

· Ta:+25°C

频率特性



Insertion loss
1: 2400MHz
–1.221dB
2: 2500MHz
–1.202dB

Return loss
1: 2400MHz
–28.573dB
2: 2500MHz
–20.283dB

Attenuation loss
1: 1200MHz
–61.487dB
2: 1300MHz
–44.918dB
3: 2000MHz
–13.083dB
4: 3000MHz
–14.092dB
5: 3600MHz
–33.109dB
6: 3800MHz
–40.9dB
7: 4800MHz
–39.925dB
8: 5000MHz
–39.346dB

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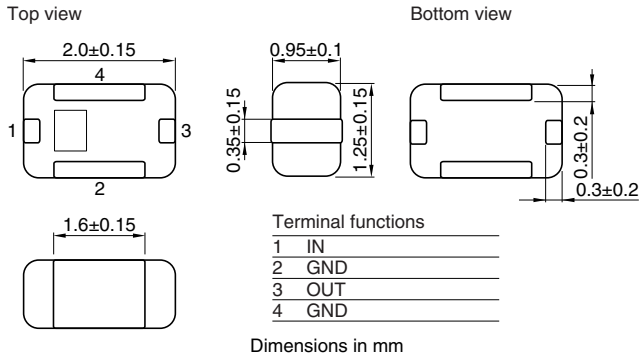
积层贴片带通滤波器
蓝牙和2.4GHz W-LAN用

RoHS指令对应产品

DEA 系列　DEA202450BT-1275A1

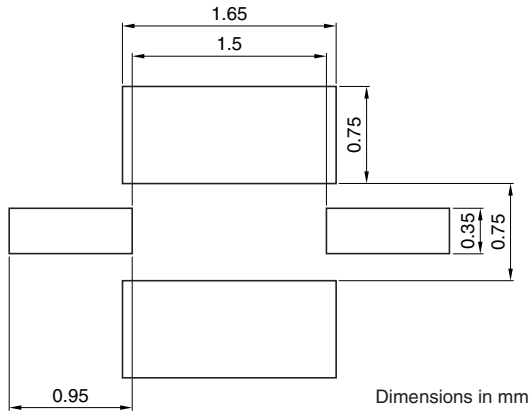
形状 · 尺寸



Terminal functions	
1	IN
2	GND
3	OUT
4	GND

Dimensions in mm

推荐印刷电路板图样



Dimensions in mm

电气特性

项目				最小值	代表值	最大值
插入损耗	[25°C]	[2400 to 2500MHz]	(dB)	—	—	1.4
	[–40 to +85°C]	[2400 to 2500MHz]	(dB)	—	—	1.6
纹波		[2400 to 2500MHz]	(dB)	—	—	1.0
输出VSWR		[2400 to 2500MHz]		—	—	2.0
输入VSWR		[2400 to 2500MHz]		—	—	2.0
衰减量		[824 to 960MHz]	(dB)	30	—	—
		[1710 to 1910MHz]	(dB)	27	—	—
		[1920 to 1990MHz]	(dB)	22	—	—
		[2110 to 2170MHz]	(dB)	6	—	—
		[4800 to 5000MHz]	(dB)	20	—	—
输出/输入阻抗			(Ω)	—	50	—
最大可输出功率			(W)	—	0.5	—
温度范围		工作时	(°C)	–40	—	+85
		保存时	(°C)	–40	—	+85

· Ta:+25°C

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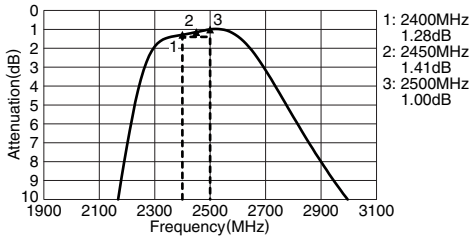
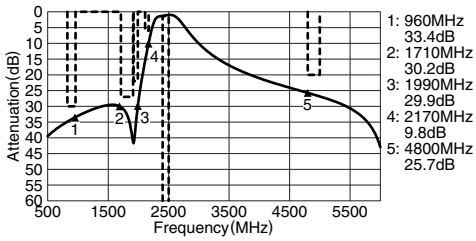
频率特性

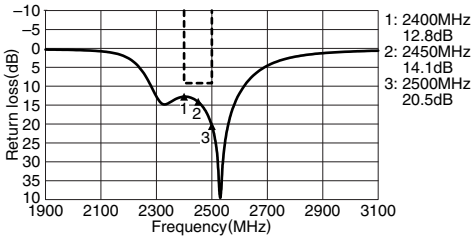
插入损耗



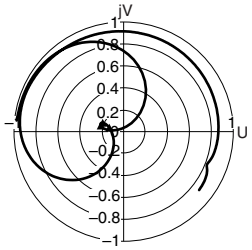
衰减量



回波损耗



VSWR

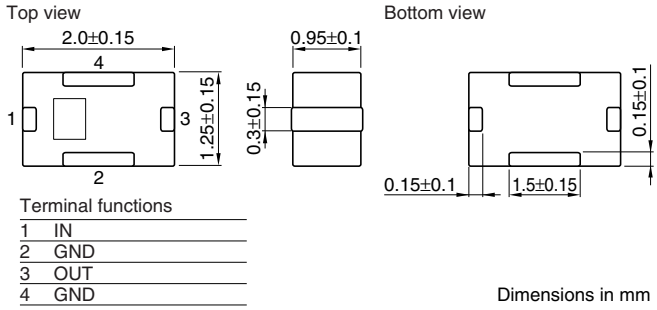


积层贴片带通滤波器
蓝牙和2.4GHz W-LAN用

RoHS指令对应产品

DEA 系列　DEA202450BT-2038A1

形状 · 尺寸

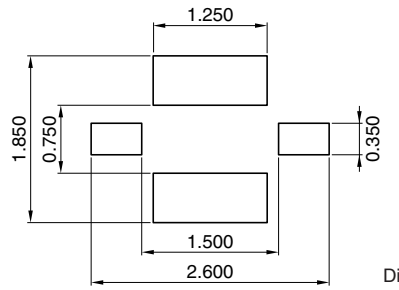


Terminal functions

1	IN
2	GND
3	OUT
4	GND

Dimensions in mm

推荐印刷电路板图样



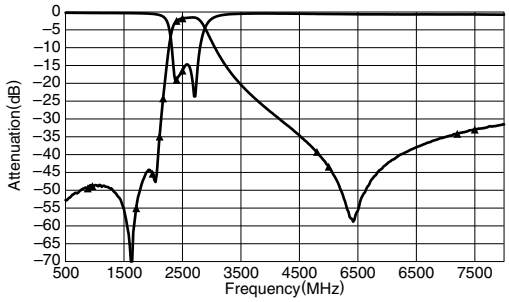
Dimensions in mm

电气特性

项目			最小值	代表值	最大值
插入损耗(at +25°C)	[2400 to 2500MHz]	(dB)	—	—	2.6
回波损耗	[2400 to 2500MHz]	(dB)	10	—	—
衰减量	[880 to 960MHz]	(dB)	40	—	—
	[1710 to 1990MHz]	(dB)	40	—	—
	[2110 to 2170MHz]	(dB)	20	—	—
	[4800 to 5000MHz]	(dB)	30	—	—
	[7200 to 7500MHz]	(dB)	30	—	—
温度范围	工作时	(°C)	–40	—	+85
	保存时	(°C)	–40	—	+85

· Ta:+25°C

频率特性



Insertion loss
1: 2400MHz
–2.49dB
2: 2500MHz
–1.79dB

Return loss
1: 2400MHz
–19.0dB
2: 2500MHz
–16.4dB

Attenuation loss
1: 880MHz
–49.5dB
2: 960MHz
–48.8dB
3: 1710MHz
–55.0dB
4: 1990MHz
–45.4dB
5: 2110MHz
–34.8dB
6: 2170MHz
–24.2dB
7: 4800MHz
–39.2dB
8: 5000MHz
–43.4dB
9: 7200MHz
–34.2dB
10: 7500MHz
–32.9dB

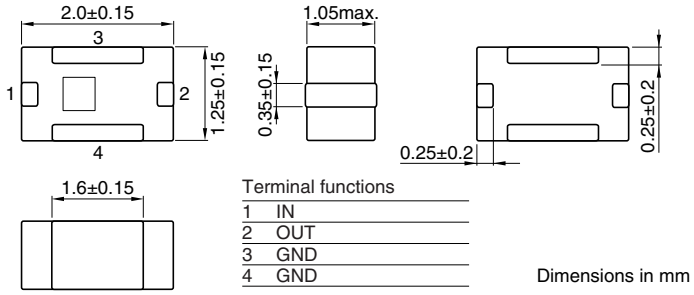
● RoHS 指令的对应：表示除了依据 EU Directive 2002/95/EC 免除的用途之外，未使用铅，镉，汞，六价铬及特定溴系难燃剂 PBB， PBDE 等。

积层贴片带通滤波器
蓝牙和2.4GHz W-LAN用

RoHS指令对应产品

DEA 系列　DEA202450BT-1283A2

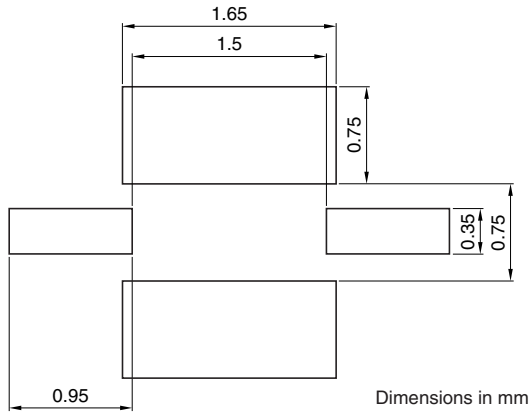
形状 · 尺寸



Terminal functions	
1	IN
2	OUT
3	GND
4	GND

Dimensions in mm

推荐印刷电路板图样



Dimensions in mm

电气特性

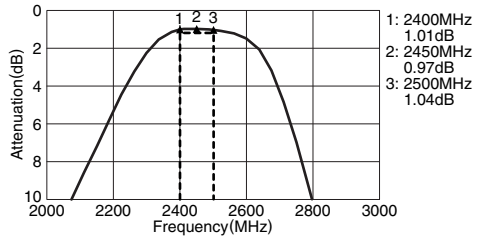
项目			最小值	代表值	最大值
频率范围 （频带）		(MHz)	2400	—	2500
插入损耗	[25°C]	(dB)	—	1.04	1.3
	[–40 to +85°C]	(dB)	—	—	1.6
单端特性阻抗		(Ω)	—	50[Nominal]	—
衰减量	[1600MHz]	(dB)	22	24.8	—
	[3200MHz]	(dB)	30	38.3	—
	[4800 to 5000MHz]	(dB)	20	26.1	—
回波损耗	[2400 to 2500MHz]	(dB)	10	18.4	—
温度范围	工作时	(°C)	–40	—	+85
	保存时	(°C)	–40	—	+85

· Ta:+25°C

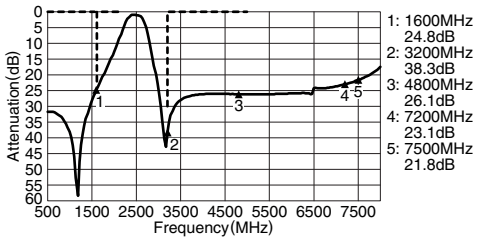
● RoHS 指令的对应：表示除了依据 EU Directive 2002/95/EC 免除的用途之外，未使用铅，镉，汞，六价铬及特定溴系难燃剂 PBB， PBDE 等。

频率特性

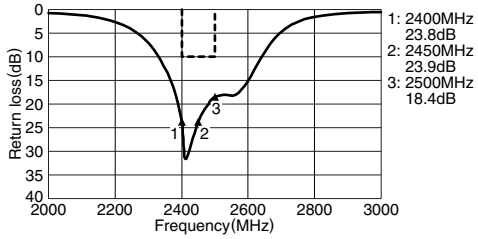
插入损耗



衰减量



回波损耗



VSWR