

Multilayer Band Pass Filter (Balance output type)

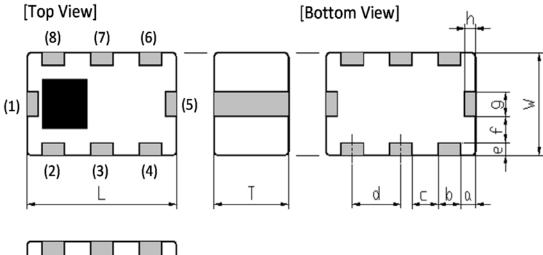
For 2.4GHz W-LAN & Bluetooth

DEA Series 2012 TYPE

P/N: **DEA202450BT-7227A1-H**

DEA202450BT-7227A1-H

SHAPES AND DIMENSIONS





Dimensions (mm)

	L	W	T	а	b	С	d	е	g	h
	2.00	1.25	1.00	0.20	0.30	0.35	0.65	0.25	0.30	0.25
Н	- /-0.15	+/-0.15	Max	+/-0.20	+/-0.20	+/-0.15	+/-0.15	+/-0.20	+/-0.20	+/-0.20

Terminal functions

(1)	Unbalanced Port
(1)	
(2)	GND
(3)	GND
(0)	D 1 1D 1
(4)	Balanced Port
(5)	DC feed or N.C.

(6)	Balanced Port
(7)	GND
(8)	GND

■ TEMPERATURE RANGE ■ TERMINATION FINISH

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

Material
Sn plate



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■ ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Eroguo	Frequency (MHz)			TDK Spec			
Parameter	Freque	псу	(IVIIIZ)	Min.	Тур.	Max.		
Unbalanced Port Characteristic Impedance (ohm)	240	0~25	500	50 (Nominal)				
Balanced Port Characteristic Impedance (ohm)	240	0~25	500	50	(Nomir	nal)		
Insertion Loss (dB)	2400	to	2500	-	2.19	2.7		
		to		-				
		to		-				
Attenuation (dB)	824	to	960	45	48.4	-		
	1710	to	1990	38	41.8	-		
	1850			38	42.1	-		
	2110	to	2170	25	42.2	-		
	4800	to	5000	40	59.6	-		
	7200	to	7500	40	53.0	-		
Return Loss at Unbalanced Port (dB)	2400	to	2500	9	16.0	-		
Return Loss at Balanced Port (dB)	2400	to	2500	9	19.1	ı		
Phase Balance (deg.)	2400	to	2500	160	167	180		
Amplitude Balance (dB)	2400	to	2500	-1	0.39	3		
Power Handling (W)				-		0.5		

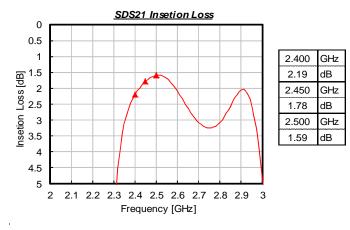
 $Ta = +25 + /-5 ^{\circ}C$



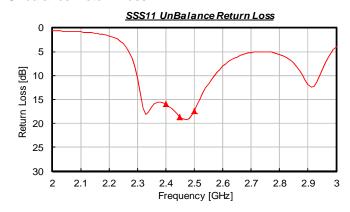
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FREQUENCY CHARACTERISTICS

Insertion Loss

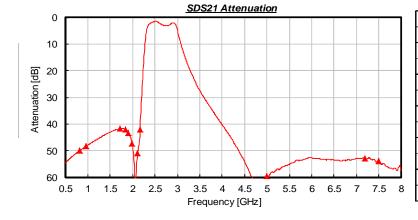


Unbalance Return Loss



2.400	GHz
16.00	dB
2.450	GHz
18.61	dB
2.500	GHz
17.38	dB

Attenuation



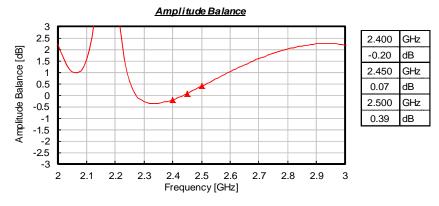
0.824	GHz	2.110	GHz
49.95	dB	50.79	dB
0.960	GHz	2.170	GHz
48.35	dB	42.18	dB
1.710	GHz	4.800	GHz
41.78	dB	62.46	dB
1.850	GHz	5.000	GHz
42.12	dB	59.61	dB
1.910	GHz	7.200	GHz
43.21	dB	53.03	dB
1.990	GHz	7.500	GHz
47.42	dB	54.02	dB



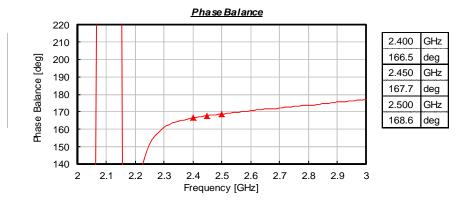
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FREQUENCY CHARACTERISTICS

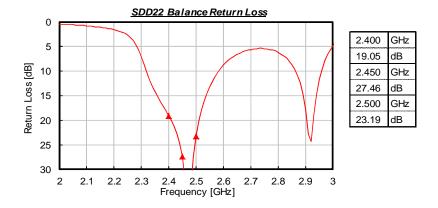
Amplitude Balance



Phase Balance



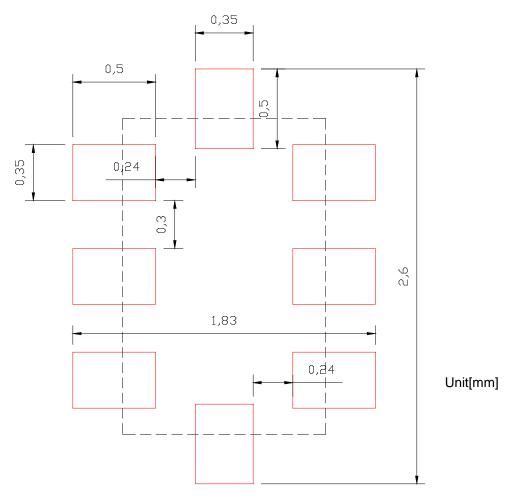
Balance Return Loss





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RECOMMENDED LAND PATTERN



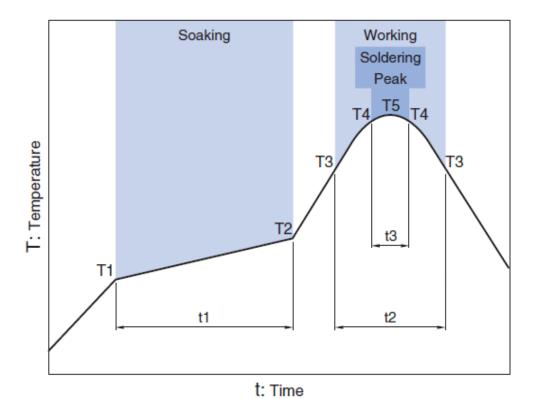
ENVIROMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE

Pb free solder

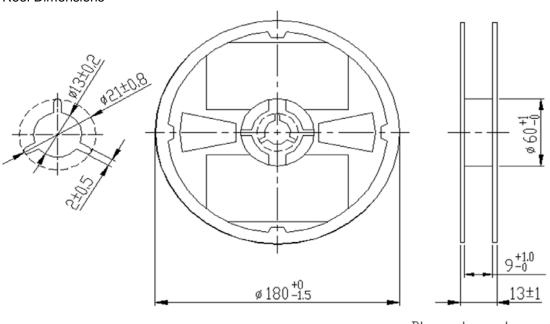


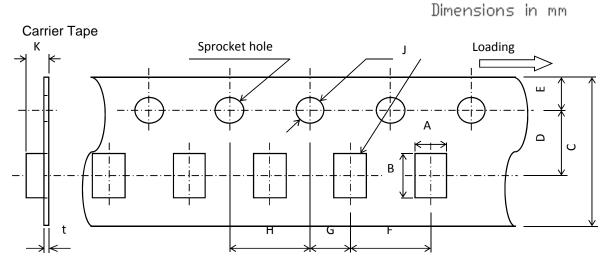
	Soaking Working		Sold	Peak			
Те	Temp. Time Temp. Time		Temp. Time		Temp.		
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

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PACKAGING STYLE

Reel Dimensions





Dimensions (mm)

Α	В	С	D	Е	F	G	Н	J	K	t
1.45	2.2	8.0	3.5	1.75	4.0	2.0	4.0	1.5	1.15	0.25
+/-0.05	+/-0.05	+0.3/-0.1	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.05

STANDARD PACKAGE QUANTITY
(pieces/reel)
2,000



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

M REMINDERS

The products listed on this specification sheet are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet.

- 1. Aerospace/Aviation equipment
- 2. Transportation equipment (cars, electric trains, ships, etc.)
- 3. Medical equipment
- 4. Power-generation control equipment
- 5. Atomic energy-related equipment
- 6. Seabed equipment
- 7. Transportation control equipment
- 8. Public information-processing equipment
- 9. Military equipment
- 10. Electric heating apparatus, burning equipment
- 11. Disaster prevention/crime prevention equipment
- 12. Safety equipment
- 13. Other applications that are not considered general-purpose applications

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc., to ensure higher safety.

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