

Multilayer Band Pass Filter
For 2.4GHz W-LAN & Bluetooth

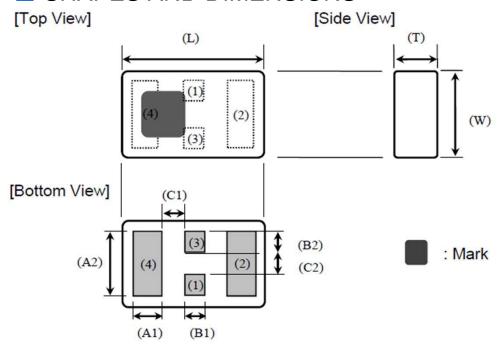
DEA Series 2.0x1.25mm [EIA 0805] TYPE

P/N: **DEA202450BT-1294D1-H**



DEA202450BT-1294D1-H

SHAPES AND DIMENSIONS



Dimensions (mm)

		()						
L	W	Т	A1	B1	C1	A2	B2	C2
2.00	1.25	0.80	0.40	0.30	0.30	0.95	0.30	0.35
+/-0.15	+/-0.10	Max	+/-0.10	+/-0.05	+/-0.10	+/-0.10	+/-0.05	+/-0.10

Terminal functions

(1)	Input Port
(2)	GND

(3)	Output Port
(4)	GND

■ TEMPERATURE RANGE

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



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ELECTRICAL CHARACTERISTICS

(Measurement)

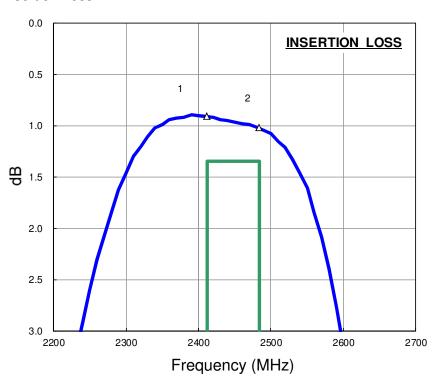
Doromotor	Eroguo	Frequency (MHz)			TDK Spec		
Parameter	rreque	псу	(IVITIZ)	Min.	Тур.	Max.	
Insertion Loss (dB)	2412	to	2484	-	1.02	1.35	
Insertion Loss (dB)	2412	to	2484	-	-	1.70	
(-40 to +85 °C)							
Return Loss (dB)	2412	to	2484	10	22	-	
VSWR	2412	to	2484	-	1.17	1.92	
Attenuation (dB)	804	to	828	30	42	-	
	1608	to	1656	20	23	-	
	3216	to	3312	30	49	-	
	4020	to	4140	40	52	-	
	4824	to	4968	20	30	-	
	5628	to	5796	20	27	-	
	6432	to	6624	20	42	-	
	7200	to	7500	35	44	-	
	7500	to	10000	20	30		
Power Handling (W)				-		1	
Characteristic Impedance (ohm)				50	(Nomi	nal)	

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

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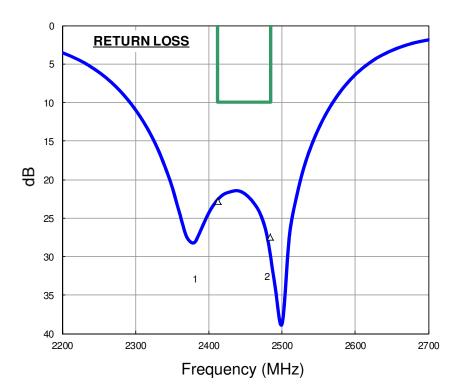
■ FREQUENCY CHARACTERISTICS

Insertion Loss



MARKER 1 2412 MHz 0.91 dB MARKER 2 2484 MHz 1.02 dB

Return Loss



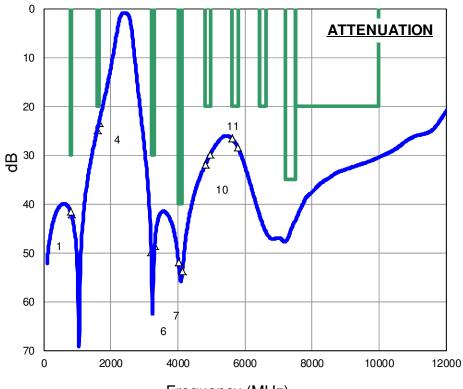
MARKER 1 2412 MHz 22.9 dB MARKER 2 2484 MHz 27.5 dB



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■ FREQUENCY CHARACTERISTICS

Attenuation



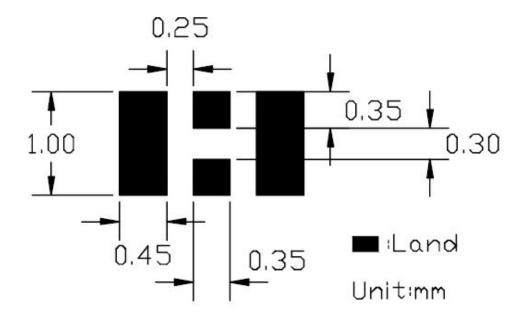
Frequency	(MHz)
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MARKER 15	MARKER 13	MARKER 11
7200 MHz	6432 MHz	5628 MHz
47.8 dB	42.1 dB	26.6 dB
MARKER 16	MARKER 14	MARKER 12
7500 MHz	6624 MHz	5796 MHz
43.5 dB	45.6 dB	28.5 dB

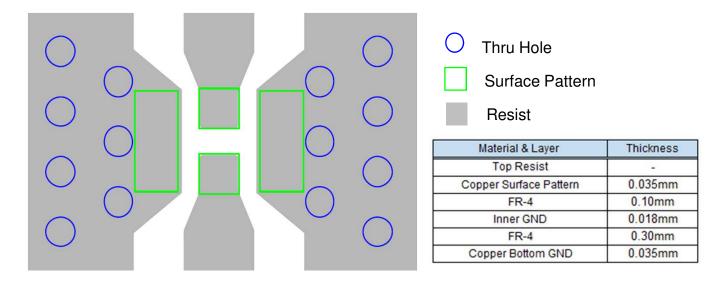
MARKER 1
804 MHz
41.6 dB
MARKER 2
828 MHz
42.0 dB
MARKER 3
1608 MHz
24.8 dB
MARKER 4
1656 MHz
23.3 dB
MARKER 5
3216 MHz
49.9 dB
MARKER 6
3312 MHz
48.7 dB
MARKER 7
4020 MHz
52.0 dB
MARKER 8
4140 MHz
53.8 dB
MARKER 9
4824 MHz
32.0 dB
MARKER 10
4968 MHz
30.0 dB

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RECOMMENDED LAND PATTERN



EVALUATION BOARD

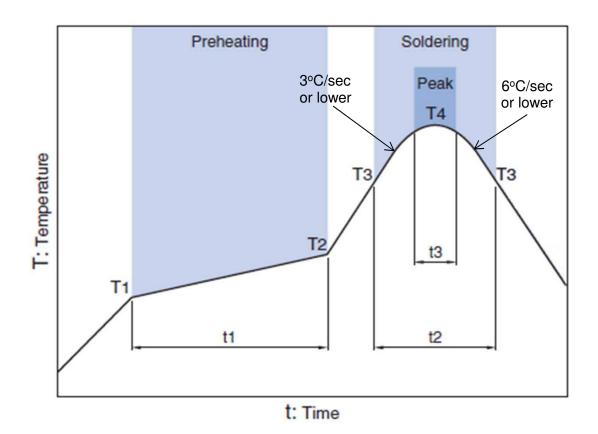


ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



	Drobe	ating		Soldering					
Preheating			Critical zon	e (T3 to T4)	Peak				
Те	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	30 sec Max			

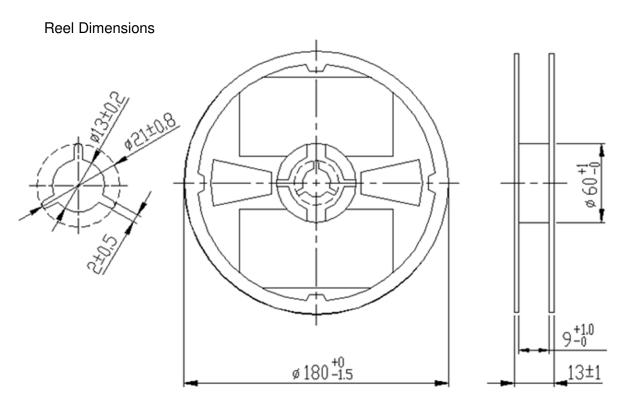
* t3 : Time within 5°C of actual peak temperature The maximum number of reflow is 3.

Note: Lead free solder is recommended.

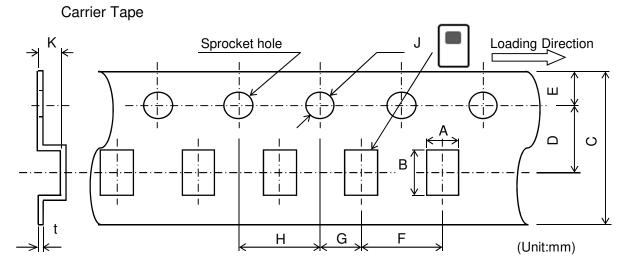
Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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PACKAGING STYLE



Dimensions in mm



I	Α	В	С	D	E	F	G	Н	J	K	t
	1.45	2.2	8.0	3.5	1.75	4.0	2.0	4.0	1.5	0.95	0.25
	+/-0.05	+/-0.05	+0.3/-0.1	+/-0.05	+/-0.10	+/-0.10	+/-0.05	+/-0.10	+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.

↑ 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.