

Multilayer Band Pass Filter
For 5GHz W-LAN

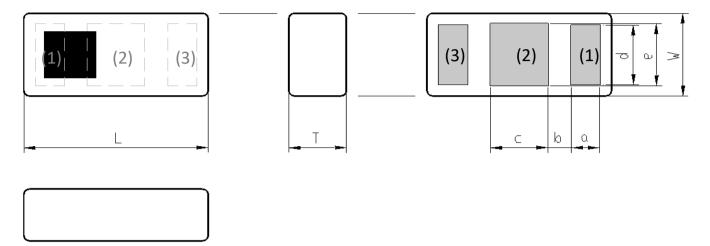
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA165538BT-2263A1-H**



DEA165538BT-2263A1-H

SHAPES AND DIMENSIONS



Dimensions (mm)

1	1010110	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
П	W	Т	а	b	С	d	е
1.60	0.80	0.65	0.25	0.23	0.40	0.55	0.60
+/-0.15	+/-0.10	Max	+/-0.10	+/-0.10	+/-0.10	+/-0.15	+/-0.15

Terminal functions

(1)	Input Port
(2)	GND
(3)	Output Port

■ TERMINATION FINISH

Material	
Ag	

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ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Erogue	Frequency (MHz)				Specification			
Parameter	rrequei					Max.			
Insertion Loss (dB)	5150	to	5925	ı	0.63	0.85			
Insertion Loss (dB)	5150	to	5925	-	-	1.00			
(-40 to +90 °C)									
Return Loss (dB)	5150	to	5925	12	17	-			
Attenuation (dB)	100	to	960	33	38	-			
	1166	to	1249	33	36	-			
	1427	to	1610	33	36	-			
	1695	to	2200	33	37	-			
	2300	to	2370	33	42	-			
	2400	to	2484	33	43	-			
	2496	to	2690	33	46	-			
	3400	to	3800	33	41	-			
	7250	to	7800	30	33	-			
	10300	to	11850	25	28	-			
	15450	to	17775	25	30	-			
Characteristic Impedance (ohm)			•	50	(Nomi	nal)			

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

MAXIMUM RATINGS

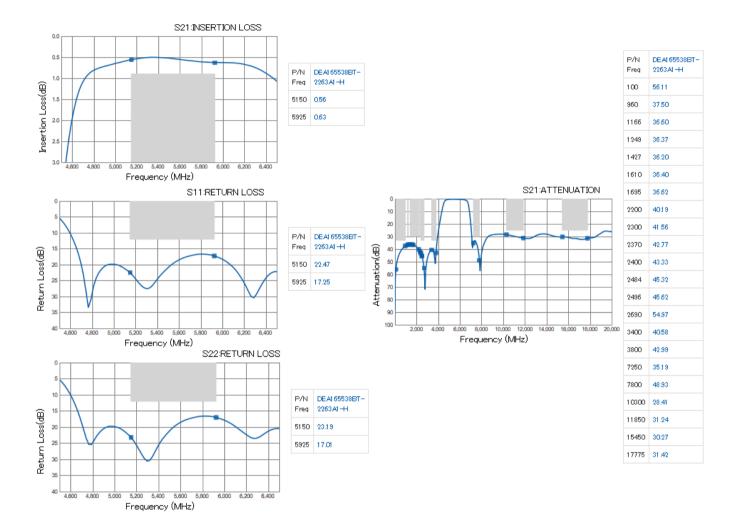
Parameter		TDK		Conditions
		Min.	Max.	
Operating temperature (°C)		–40 to	+90 °C	
Storage temperature (°C)		–40 to	+90 °C	
Power Handling (dBm)		-	31	CW
Human Body Model : HBM	@Each Port (V)	-1000	1000	100pF / 1500ohm
Machine Model : MM	@Each Port (V)	-150	150	200pF / 0ohm
Charged Device Model : CDM	@Each Port (V)	-500	500	Relative humidity: 51%RH max

Ambient temperature: +25+/-5°C



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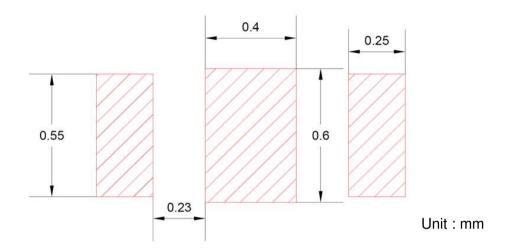
■ FREQUENCY CHARACTERISTICS



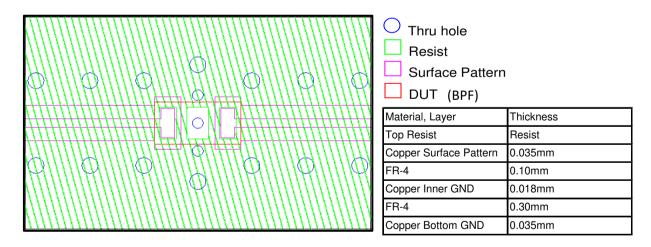


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RECOMMENDED LAND PATTERN



EVALUATION BOARD



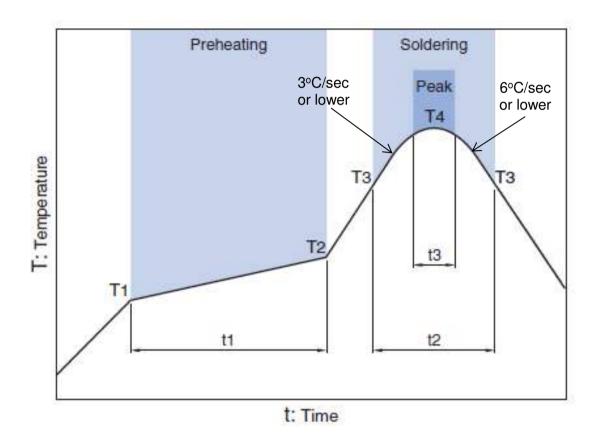
^{*} Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.

ENVIROMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



	Drobe	ating	Soldering						
Preheating			Critical zon	e (T3 to T4)	Peak				
Ter	np.	Time	Temp.	Time	Temp.	Time			
T1 T2		t1	T3	t2	T4	t3 *			
150°C	C 200°C 60 to 120sec 217°C		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.

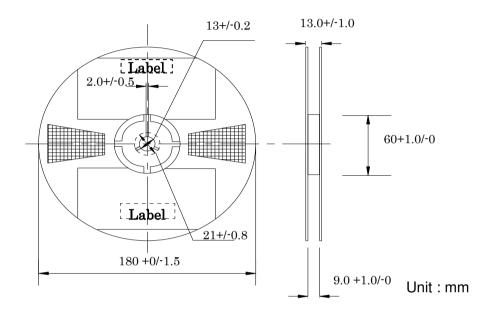
Note: Lead free solder is recommended.

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

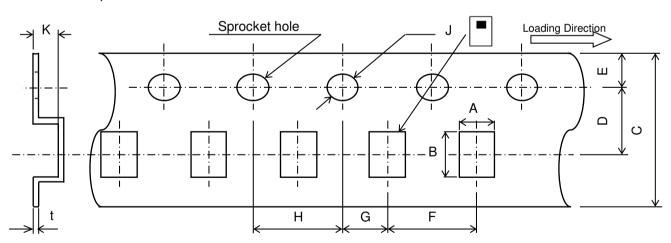
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PACKAGING STYLE

Reel Dimensions



Carrier Tape



Dimensions (mm)

Α	В	С	D	Е	F	G	Η	J	K	t
0.97	1.8	8.0	3.5	1.75	4.0	2.0	4.0	1.5	8.0	0.25
+/-0.05	+/-0.05	+/-0.2	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.05

STANDARD PACKAGE QUANTITY
(pieces/reel)
4,000



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.