

Multilayer Band Pass Filter

For 3300-4200MHz

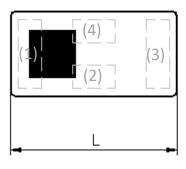
DEA Series 1.6x0.8mm [EIA 0603] TYPE

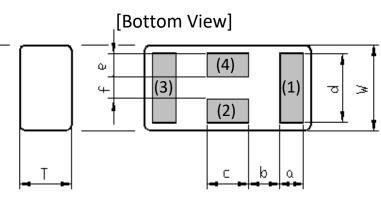
P/N: DEA163750BT-3059A1

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SHAPES AND DIMENSIONS

[Top View]





Dimensions (mm)

		<u> </u>						
L	W	Т	а	b	С	d	е	f
1.60	0.80	0.65	0.225	0.30	0.40	0.65	0.22	0.21
+/-0.10	+/-0.10	Max	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05

Terminal functions

(1)	Input / Output Port	(3)	Output / Input Port
(2)	GND	(4)	GND

TERMINATION FINISH

Material	
Au plate	

⊘TDK

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ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Freque	nov	(MU-)	TDK Spec			
Farameter	rieque	псу	(11112)	Min.	Typ. 0.69 1.43 1.37 16 18	Max.	
Insertion Loss (dB)	3300	to	4200	I	0.69	0.85	
Insertion Loss (dB)	3300	to	4200	I		1.20	
(–40 to +85 °C)							
VSWR (Input Port)	3300	to	4200	I	1.43	1.92	
VSWR (Output Port)	3300	to	4200	I	1.37	1.92	
Attenuation (dB)	1710	to	2690	14	16	-	
	5150	to	5850	10	18	-	
Characteristic Impedance (ohm)				50	(Nomi	nal)	

Ta = +25+/-5°C

MAXIMUM RATINGS

Parameter		TDK Spec	Conditions					
Operating temperature (°C)		–40 to +85 °C						
Storage temperature (°C)		–40 to +85 °C						
Power Handling (W) *1	ower Handling (W) *1 Frequency (MHz)							
	3300 to 4200) 1	CW					
Human Body Model : HBM	@Each Port (V)	+/-1000	100pF / 1500ohm					
Machine Model : MM	@Each Port (V)) +/-150	200pF / 0ohm					
Charged Device Model : CDM	@Each Port (V)	+/-500	Humidity : 60%RH max					
	*1 · Refer to 3GPP TS 38 101-1 V15 2 0							

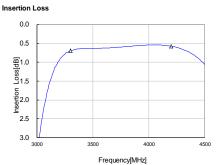
1 : Refer to 3GPP TS 38.101-1 V15.2.0

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FREQUENCY CHARACTERISTICS

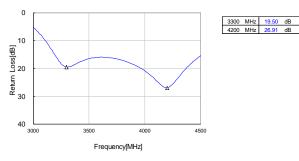
Attenuation

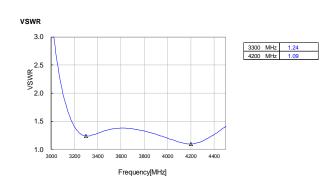






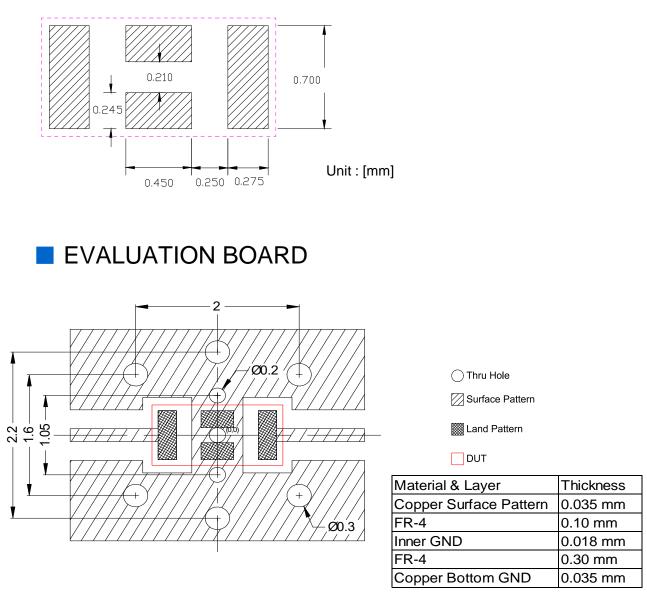
Common Port Return Loss





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RECOMMENDED LAND PATTERN



unit : mm

- * Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.
- ** The position of the throuh hole which have possibility of influence to the prerformance are indicated by dimension line.

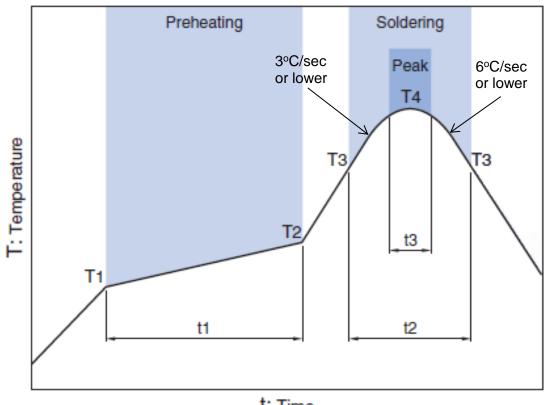


RoHS Statement RoHS Compliance

> All specifications are subject to change without notice. Before using these products, be sure to request the delivery specifications.

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RECOMMENDED REFLOW PROFILE



t٠	Timo
ι.	nine

Preheating			Soldering					
Preneating			Critical zon	e (T3 to T4)	Peak			
Temp. Time		Time	Temp. Time		Temp.	Time		
T1	T2	t1	Т3	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.

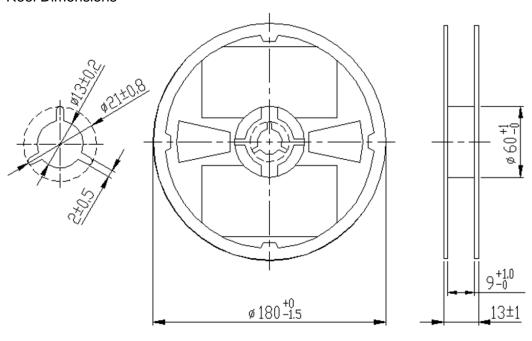
Note: Lead free solder is recommended. Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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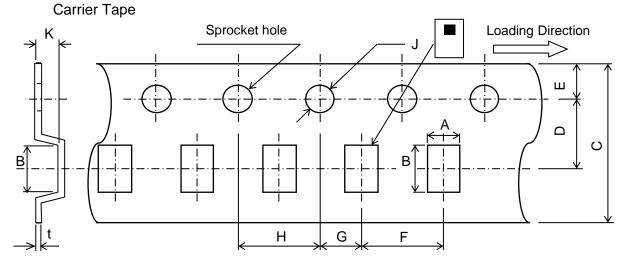
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PACKAGING STYLE

Reel Dimensions



Dimensions in mm



Dimensions (mm)

Α	В	С	D	Ε	F	G	Н	J	Κ	t
										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

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⊗TDK

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 catalog 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 catalog.

- (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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