

Multilayer Band Pass Filter
For N77

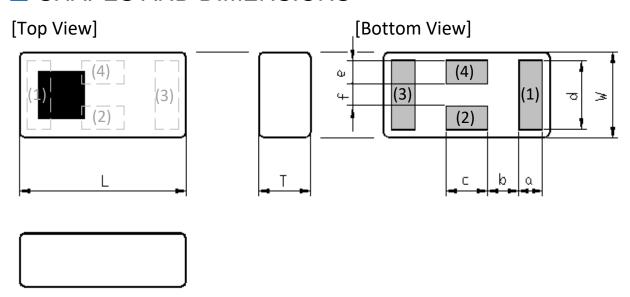
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA163750BT-3059A1**



DEA163750BT-3059A1

SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	T	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
(2)	GND

(3)	Output / Input Port
(4)	GND

TERMINATION FINISH

Material	
Au plate	



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ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Frequency (MHz)			TDK Spec			
Farameter	Freque	псу	(1411-12)	Min.	Тур.	Max.	
Insertion Loss (dB)	3300	to	4200	-	0.69	0.85	
Insertion Loss (dB)	3300	to	4200	-		1.20	
(-40 to +85 °C)							
VSWR (Input Port)	3300	to	4200	•	1.43	1.92	
VSWR (Output Port)	3300	to	4200	•	1.37	1.92	
Attenuation (dB)	1710	to	2690	14	16	-	
	5150	to	5850	10	18	-	
Characteristic Impedance (ohm)				50	(Nomi	nal)	

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

MAXIMUM RATINGS

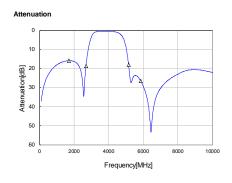
Parameter	TDK Spec	Conditions	
Operating temperature (°C)	–40 to +85 °C		
Storage temperature (°C)		–40 to +85 °C	
Power Handling (W) *1	Frequency (MHz)		
	3300 to 4200	1	CW
Human Body Model: HBM	@Each Port (V)	+/-1000	100pF / 1500ohm
Machine Model : MM	@Each Port (V)	+/-150	200pF / 0ohm
Charged Device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

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

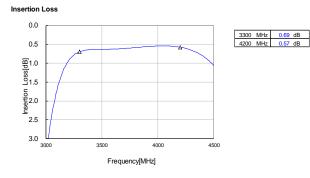


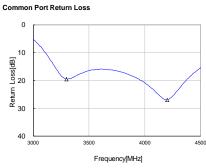
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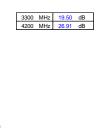
■ FREQUENCY CHARACTERISTICS

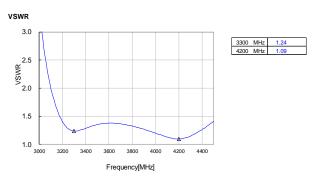


1710	MHz	15.87	dB
2690	MHz	18.54	dB
5150	MHz	17.85	dB
5850	MHz	26.43	dB



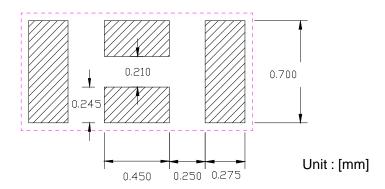




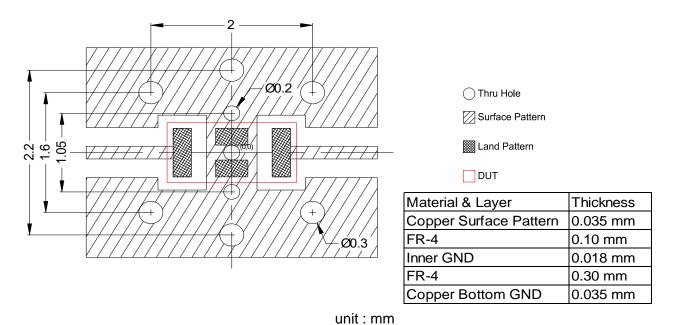


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RECOMMENDED LAND PATTERN



EVALUATION BOARD



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

 ** The position of the through help which have possibility of influence to the professional.
- ** The position of the throuh hole which have possibility of influence to the prerformance are indicated by dimension line.

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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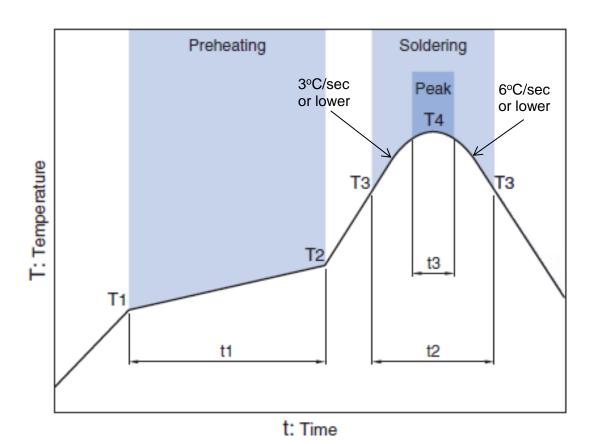
Preheating

Time

t1

Temp.

RECOMMENDED REFLOW PROFILE



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.

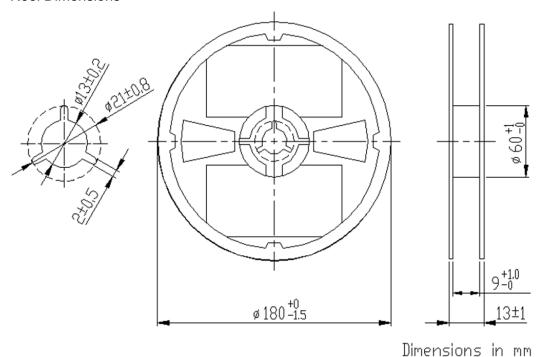
Note: Lead free solder is recommended.

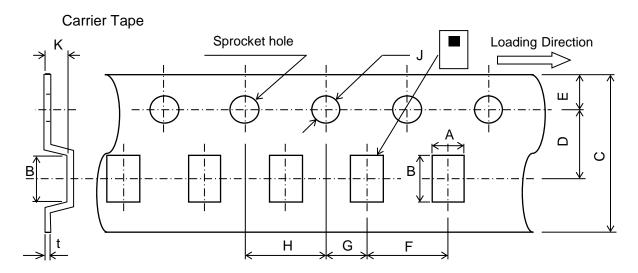
Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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PACKAGING STYLE

Reel Dimensions





Dimensions (mm)

Α	В	C	D	Е	F	G	Н	J	K	t
0.97	1.8	8.0	3.5	1.75	4.0	2.0	4.0	1.5	0.8	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.

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CDBLB455KCAX39-B0 RF1353C 051157-0000 PD0922J5050D2HF 600S150FTRB 1E1305-3 1F1304-3S TP-103-PIN

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