

Multilayer Band Pass Filter

For 2.4GHz W-LAN & Bluetooth

DEA Series

1.4x1.1mm TYPE

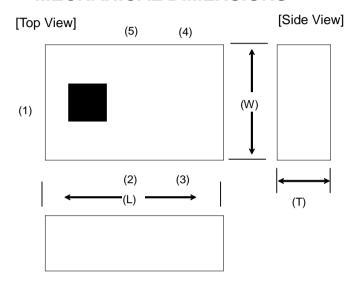
P/N: **DEA142450BT-3024A1**

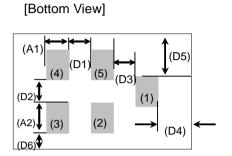


DEA142450BT-3024A1

SHAPES AND DIMENSIONS

MECHANICAL DIMENSIONS





Dimensions (mm)

L	W	Т	A1	D1	A2	D2	D3	D4	D5	D6
1.40	1.10	0.60	0.25	0.25	0.325	0.25	0.25	0.075	0.388	0.10
+/-0.20	+/-0.20	Max	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05

Terminal functions

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

(4)	Output Port
(5)	GND

■ TERMINATION FINISH

Material
Au plate



DEA142450BT-3024A1

ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Eroguo	nev	/MU-\	TDK Spec		
Farameter	Frequency (MHz)			Min.	Тур.	Max.
Insertion Loss (dB)	2400	to	2500	-	0.97	1.10
Return Loss (dB)	2400	to	2500	10	19	-
Attenuation (dB)	50	to	960	20	23	-
	1710	to	1990	10	12	-
	3600			9	10	-
	4800	to	7200	22	24	-
Characteristic Impedance (ohm)				50	(Nomi	nal)

Ta = +25 + /-5°C

MAXIMUM RATINGS

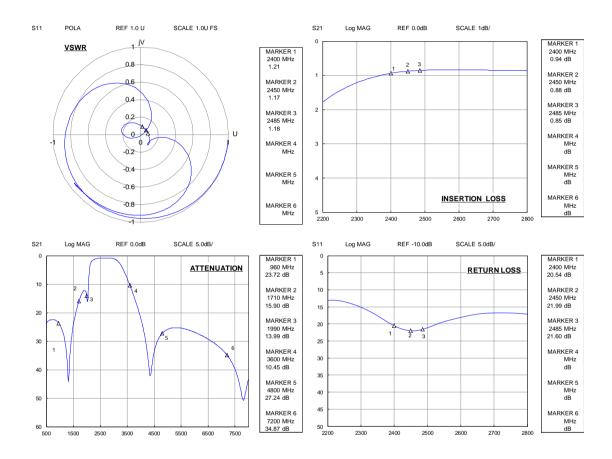
Doromotor		TDK S	Spec	Conditions		
Parameter		Min.	Max.	Conditions		
Operating temperature (°C)		–40 to -	+85 °C			
Storage temperature (°C)		–40 to +85 °C				
Power Handling (W)		-	1	CW Duty 100%		
Human Body Model : HBM	@Each Port (V)	-1000	1000	100pF / 1500ohm		
Machine Model : MM	@Each Port (V)	-150	150	200pF / 0ohm		
Charged Device Model : CDM	@Each Port (V)	-500	500	Relative humidity : 51%RH max		

Ambient temperature: +25+/-5°C



DEA142450BT-3024A1

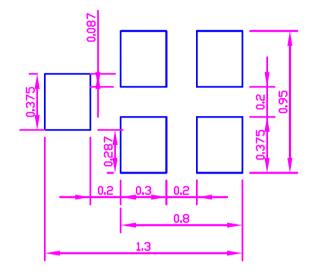
■ FREQUENCY CHARACTERISTICS





DEA142450BT-3024A1

RECOMMENDED LAND PATTERN



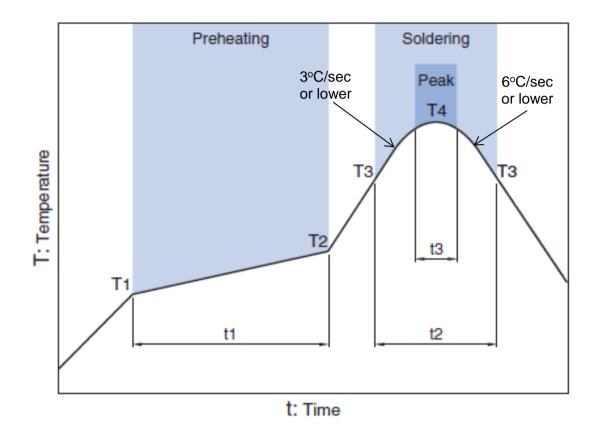
Unit: [mm]

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

TDK Corporation

RECOMMENDED REFLOW PROFILE



	Drobe	acting	Soldering						
Preheating			Critical zon	e (T3 to T4)	Peak				
Te	mp.	Time	Temp.	Time	Temp.	Time			
T1	T2	t1	T3	t2	T4	t3 *			
150°	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.

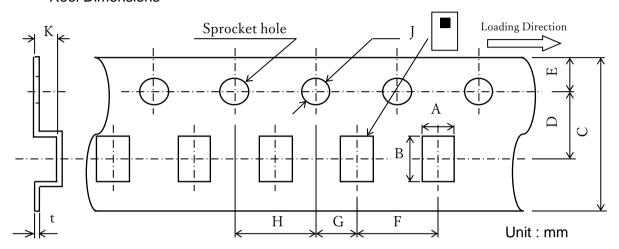
Note: Lead free solder is recommended.

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

DEA142450BT-3024A1

PACKAGING STYLE

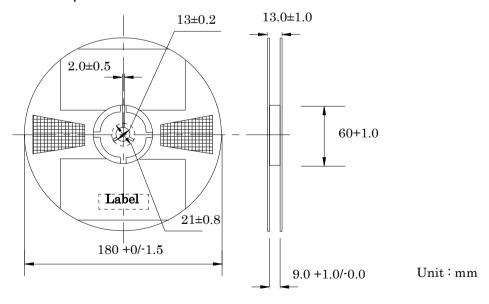
Reel Dimensions



Dimensions (mm)

		(,								
Α	В	C	D	Е	F	G	Η	J	K	t
1.35	1.65	8.0	3.5	1.75	4.0	2.0	4.0	1.5	0.7	0.25
+/-0.05	+/-0.05	+/-0.2	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.05

Carrier Tape



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.