

Multilayer Band Pass Filter
For LTE

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

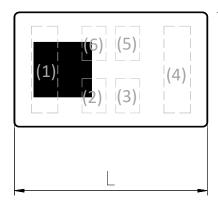
P/N: **DEA203550BT-2224A4-H**



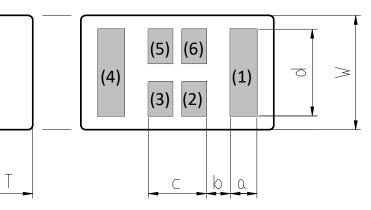
DEA203550BT-2224A4-H

SHAPES AND DIMENSIONS

[Top View]



[Bottom View]



Dimensions (mm)

		()					
L	W	W T a		b	С	d	
2.00	1.25	0.65	0.275	0.25	0.60	0.95	
+/-0.15	+/-0.10	Max	+/-0.10	+/-0.10	+/-0.10	+/-0.15	

Terminal functions

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

(4)	Output Port
(5)	GND
(6)	GND

TERMINATION FINISH

Material
Ag



DEA203550BT-2224A4-H

ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Freque	nev	/MU-/	TDK Spec			
Farameter	rreque	псу	(IVITIZ)	Min.	Тур.	Max.	
Insertion Loss (dB)	3300	to	3400	-	1.04	1.25	
	3400	to	3800	•	0.94	1.15	
Insertion Loss (dB)	3300	to	3400	-	-	1.45	
(-40 to +90 °C)	3400	to	3800	•	-	1.25	
Return Loss (dB)	3300	to	3400	10	22.3	-	
	3400	to	3800	10	21.9	-	
Attenuation (dB)	500	to	2170	40	44.1	-	
(-40 to +90 °C)	880	to	960	40	45.9	-	
	1710	to	1785	40	44.1	-	
	2300	to	2700	32	34.9	-	
			2800	7	42.7	-	
	2700	to	3150	-	1.5	-	
	4100	to	4300	-	4.1	-	
			4400	7	17.3	-	
	4800	to	4900	25	35.6	-	
	4900	to	5150	30	42.0	-	
	5150	to	5850	35	41.5	-	
	6250	to	6550	35	42.8	-	
	6800	to	7200	35	46.4	_	
	7200	to	9000	35	50.0	_	
	10200	to	10800	35	45.0	_	
Characteristic Impedance (ohm)				50	(Nomi	nal)	

Ta = +25+/-5°C

MAXIMUM RATINGS

Parameter		TDK S	Spec	Conditions		
Farameter		Min.	Max.	Conditions		
Operating temperature (°C)		–40 to -	+90 °C			
Storage temperature (°C)		–40 to	+90 °C			
Power Handling (W) *1		-	2	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 : 60%RH max		

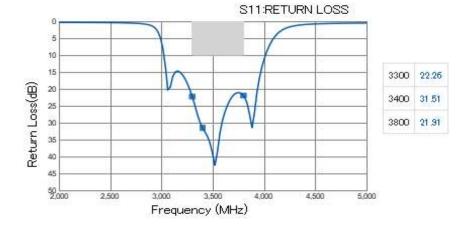
*1 : Refer to 3GPP TS 38.101-1 V15.2.0



DEA203550BT-2224A4-H

FREQUENCY CHARACTERISTICS

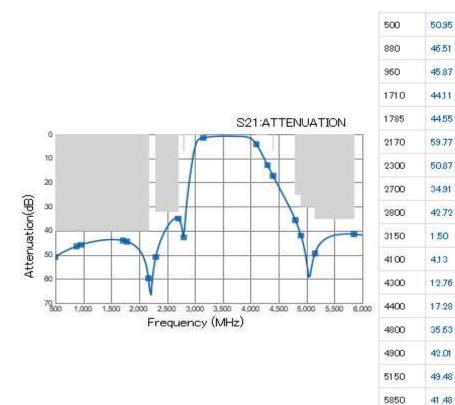


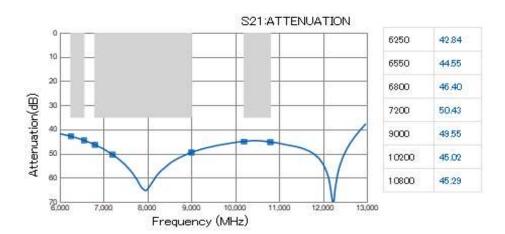




DEA203550BT-2224A4-H

FREQUENCY CHARACTERISTICS

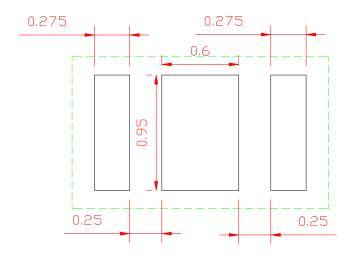






DEA203550BT-2224A4-H

RECOMMENDED LAND PATTERN



Unit: mm

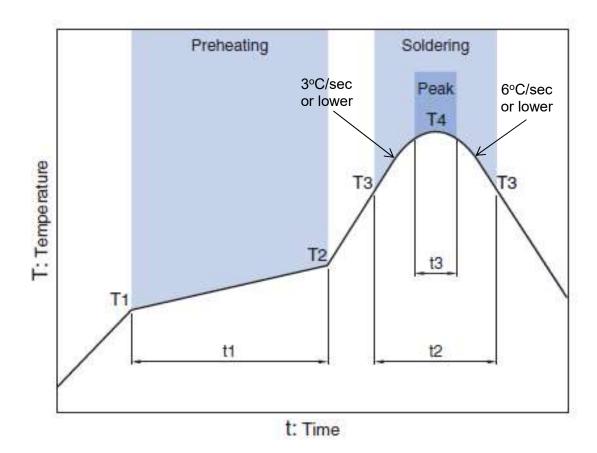
ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance



DEA203550BT-2224A4-H

RECOMMENDED REFLOW PROFILE



	Drobe	eating	Soldering						
	Prene	eating	Critical zon	e (T3 to T4)	Peak				
Tei	np.	Time	Temp.	Time	Temp.	Time			
T1	T2	t1	T3	t2	T4	t3 *			
150°C 200°		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)

GENERAL TECHNICAL INFORMATION

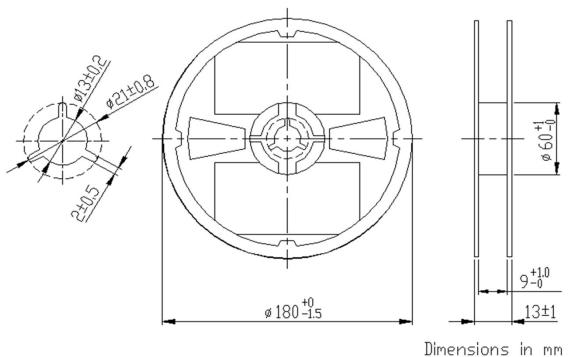
 $\underline{\text{https://product.tdk.com/en/system/files?file=dam/doc/product/rf/rf/diplexer/general_tech_info/rf_general-technical-info_02_en.pdf}$



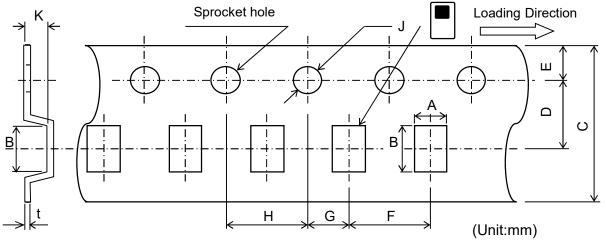
DEA203550BT-2224A4-H

PACKAGING STYLE

Reel Dimensions







Dimensions (mm)

Α	В	С	D	Е	F	G	Н	J	K	t
1.45	2.2	8.0	3.5	1.75	4.0	2.0	4.0	1.5	0.8	0.25
+/-0.05	+/-0.05	+0.3/-0.1	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+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.