

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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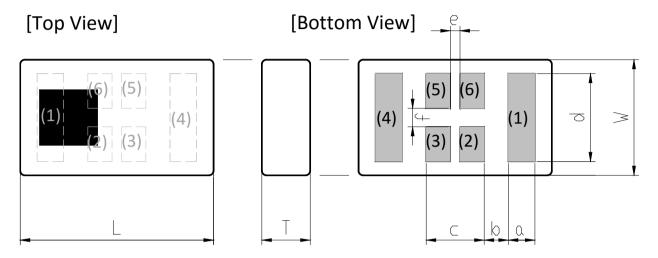
Multilayer Band Pass Filter
For LTE

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

P/N: **DEA203500BT-2213A1-H** 

#### DEA203500BT-2213A1-H

#### SHAPES AND DIMENSIONS



Dimensions (mm)

	1010110	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
L	W	Т	а	b	C	d	е	f
2.00	1.25	0.65	0.275	0.25	0.60	0.95	0.10	0.20
+/-0.15	+/-0.10	Max	+/-0.10	+/-0.10	+/-0.10	+/-0.15	+/-0.05	+/-0.05

Terminal functions

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

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

DC Cut

No. There is NOT a DC Cut between the IN & OUT & GND.

#### TEMPERATURE RANGE

#### ■ TERMINATION FINISH

Operating temperature	Storage temperature
–40 to +85 °C	–40 to +85 °C

Material
Ag

## DEA203500BT-2213A1-H

## ELECTRICAL CHARACTERISTICS

( Measurement )

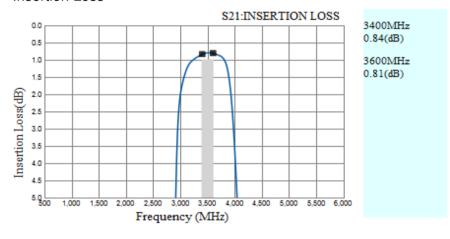
Parameter	Eroguo	nov	/MH-)	TDK Spec		
Parameter	rieque	Frequency		Min.	Тур.	Max.
Insertion Loss (dB)	3400	to	3600	ı	0.84	1.00
		to		-		
		to		-		
Insertion Loss (dB)	3400	to	3600	-	0.94	1.10
( –40 to +85 °C )		to		-		
		to		-		
Return Loss (dB)	3400	to	3600	10	22.2	-
		to				-
		to				-
Attenuation (dB)	500	to	2170	40	40.7	-
	880	to	960	40	43.6	-
	1710	to	1785	40	40.7	-
	2300	to	2700	32	34.5	-
			4400	6.1	19.2	-
	4800	to	4900	25	34.3	-
	4900	to	5150	30	38.7	-
	5150	to	5925	35	44.6	-
	6250	to	6550	40	45.2	-
	6800	to	7200	40	48.5	-
	7200	to	9000	35	50.1	-
	10200	to	10800	35	46.4	-
Power Handling (W)				-	-	1
Characteristic Impedance (ohm)				50	(Nomii	nal)

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

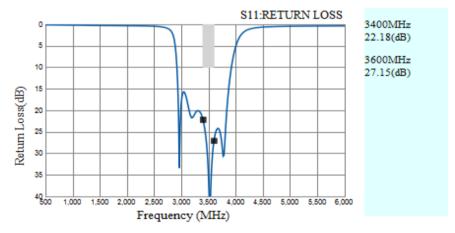
#### DEA203500BT-2213A1-H

#### ■ FREQUENCY CHARACTERISTICS

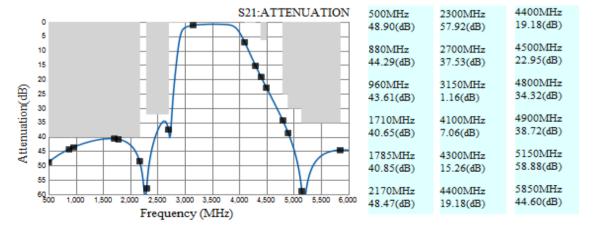
#### Insertion Loss



#### Return Loss



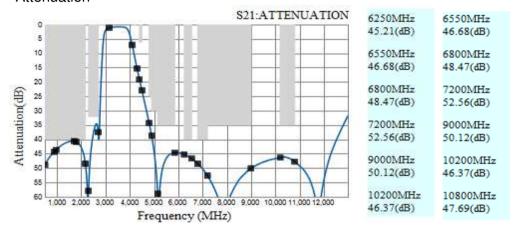
#### Attenuation



## DEA203500BT-2213A1-H

## ■ FREQUENCY CHARACTERISTICS

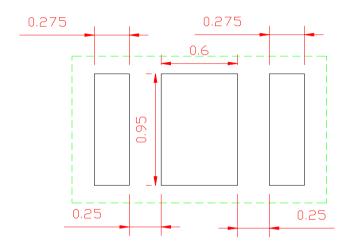
#### Attenuation





## DEA203500BT-2213A1-H

## RECOMMENDED LAND PATTERN

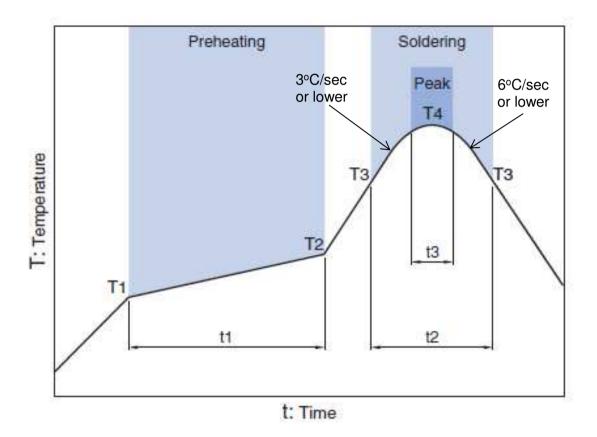


## ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

**TDK Corporation** 

#### ■ RECOMMENDED REFLOW PROFILE



	Drobe	ating	Soldering						
Preheating			Critical zon	e (T3 to T4)	Peak				
Tei	mp.	Time	Temp. Time		Temp.	Time			
T1	T2	t1	T3	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.

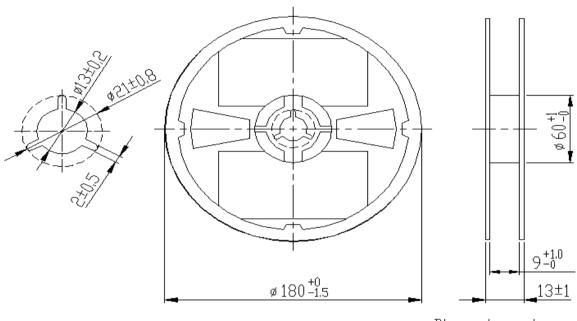
Note: Lead free solder is recommended.

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

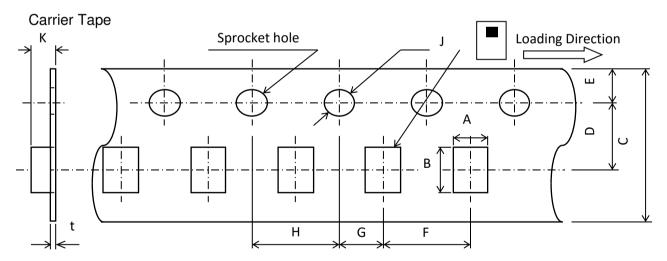
# DEA203500BT-2213A1-H

## PACKAGING STYLE

**Reel Dimensions** 



Dimensions in mm



#### Dimensions (mm)

	Α	В	С	D	Е	F	G	Ι	7	K	t
	1.45	2.2	8.0	3.5	1.75	4.0	2.0	4.0	1.5	0.8	0.25
L	+/-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.