

Multilayer Band Pass Filter
For 5G-H

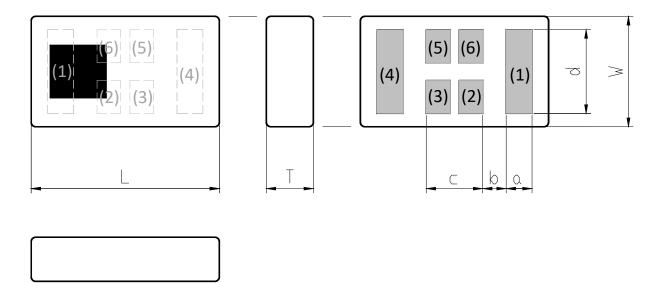
DEA Series 2.0x1.25mm [EIA 0805] TYPE

P/N: **DEA204700BT-2307A1**



DEA204700BT-2307A1

SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	Т	а	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



DEA204700BT-2307A1

ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Frequency (MHz)			TDK Spec.		
				Min.	Тур.	Max.
Insertion Loss (dB)	4400	to	5000	ı	0.64	0.85
Insertion Loss (dB)	4400	to	5000	-	-	1.08
(–40 to +90 °C)		to		ı		
Return Loss (dB)	4400	to	5000	10	21.0	•
(Input / Output Port)		to				•
Attenuation (dB)	500	to	1606	20	22.6	ı
	1606	to	2400	23	27.2	ı
	2400	to	2500	23	37.2	1
	2500	to	2690	21	27.0	1
	2700	to	3150	5	24.5	1
	3300	to	3800	13	17.0	1
	3800	to	4200	0.7	1.5	1
	8800	to	10000	15	23.4	-
	13200	to	15000	15	18.0	-
Characteristic Impedance (ohm))		_	50	(Nomi	nal)

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

MAXIMUM RATINGS

Parameter		TDK :	Spec	Conditions
Parameter		Min.	Max.	Conditions
Operating temperature (°C	3)	–40 to	+90 °C	
Storage temperature (°C)		–40 to	+90 °C	
Power Handling (W)			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	Relative humidity : 60%RH max

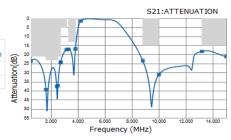
*1 : Refer to 3GPP TS 38.101-1 V15.2.0



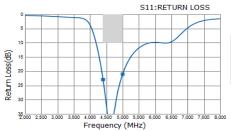
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■ FREQUENCY CHARACTERISTICS

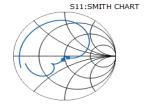




	DEA204700BT- 2307A1_ver1.0N_Feb282018
500	23.56
1606	39.35
2400	37.59
2500	37.21
2690	24.48
2700	24.15
3150	17.25
3300	17.04
3800	16.95
4200	1.47
8800	23.42
10000	31.07
13200	18.29
15000	21.21



P/N	DEA204700BT-
Freq	2307A1_ver1.0N_Feb282018
4400	22.93
5000	21.00

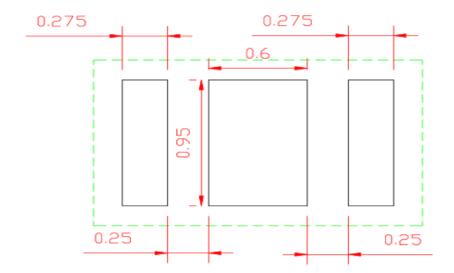


P/N Freq	DEA204700BT- 2307A1_ver1.0N_Feb282018
4400	0.06 / -0.03
5000	-0.04 / -0.08



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RECOMMENDED LAND PATTERN



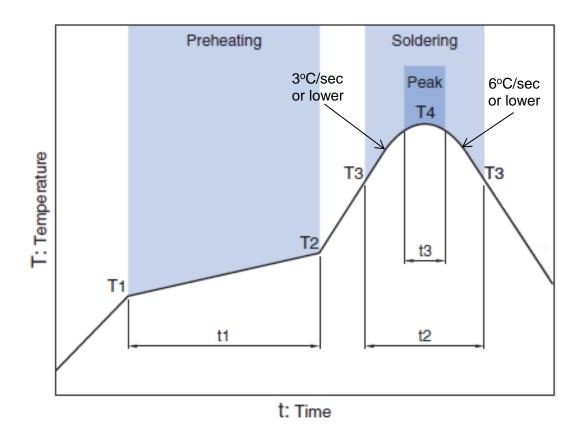
Unit[mm]

■ ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



	Drobe	eating	Soldering						
	Frene	ating	Critical zon	e (T3 to T4)	Peak				
Temp.		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.

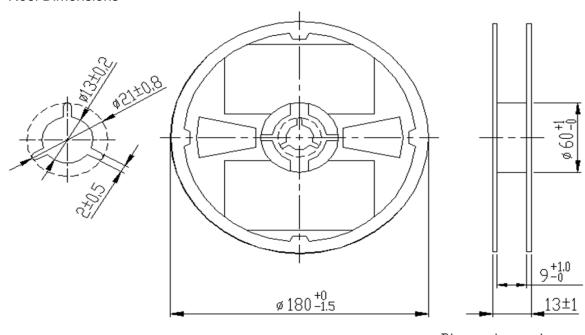
Note: Lead free solder is recommended.

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

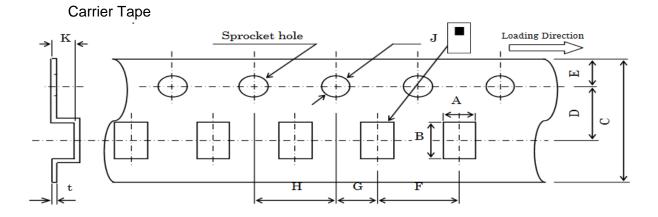
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PACKAGING STYLE

Reel Dimensions



Dimensions in mm



Dimensions (mm)

	Α	В	C	D	Е	F	G	Ι	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

I	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.