

Multilayer Band Pass Filter For 5G-LM (n77)

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

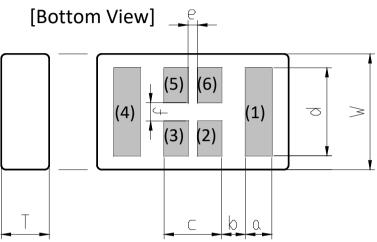


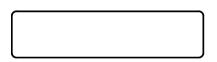
DEA203750BT-2292A1-H

SHAPES AND DIMENSIONS

[Top View]

(1)	(5)	(4)
	L	





Dimensions (mm)

		()	,							
L	W	Т	а	b	С	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 Port				
(2) GND					
(3)	GND				

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

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

TERMINATION FINISH

Material	
Ag	

RF Components

Mar. 2021 Ver.1.0 TDK Corporation

DEA203750BT-2292A1-H

ELECTRICAL CHARACTERISTICS

(M	leasurement)	
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Devementer	Freesure		(8411-)	T	OK Sp	ec
Parameter	Freque	ncy	(IVIHZ)	Min.	Тур.	Max.
Insertion Loss (dB)	3300	to	4200	-	1.48	2.1
		to		-	-	-
		to		-	-	-
Insertion Loss (dB)	3300	to	4200	-	-	2.3
(–40 to +85 °C)		to		-	-	-
		to		-	-	-
VSWR	3300	to	4200	-	1.5	2.1
(Input / Output Port)		to		-	-	-
		to		-	-	-
Attenuation (dB)	100	to	915	43	47.1	-
	1427	to	1467	43	52.8	-
	1627	to	1661	45	69.9	-
	1695	to	1785	40	55.4	-
	1850	to	2025	40	45.3	-
	2300	to	2400	35	39.3	-
	2400	to	2495	35	39.3	-
	2496	to	2690	28	39.7	-
	2700	to	3050	1	6.1	-
	4450	to	4900	4	12.6	-
	4900	to	5925	33	39.3	-
	6600	to	8400	33	39.1	-
	9900	to	12600	33	44.3	-
Characteristic Impedance (ohm)				50	(Nomi	nal)

Characteristic Impedance (ohm) Ta = +25+/-5°C

MAXIMUM RATINGS

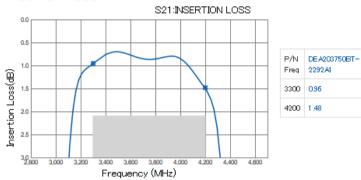
Parameter		TDK Spec		Conditions
Falameter		Min.	Max.	Conditions
Operating temperature (°C)		–40 to -	+85 °C	
Storage temperature (°C)		–40 to -	+85 °C	
Power Handling (W)		-	1	CW
Human Body Model : HBM	@Each Port (V)	-1000	1000	100pF / 1500ohm
Machine Model : MM	@Each Port (V)	-150	150	200pF / 0ohm
Charged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

Ambient temperature : +25+/-5°C

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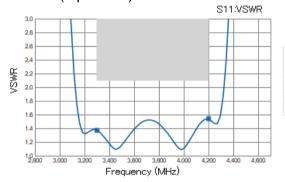
FREQUENCY CHARACTERISTICS

Insertion Loss



VSWR (Input Port)

VSWR (Output Port)



S22:VSWR 3.0 2.8 26 2.4 VSWR 22 2.0 1.8 1.6 1.4 1.2 10 3,000 3 200 3,600 3,800 4 000 4 200 4 400 4 600 Frequency (MHz)

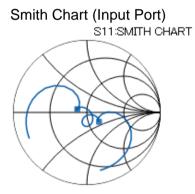


P/N DEA203750BT-

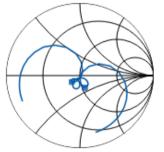
Freq 2292At

3300 1.37

4200 1.54



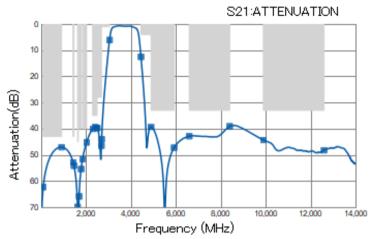
Smith Chart (Output Port) S22:SMITH CHART



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FREQUENCY CHARACTERISTICS

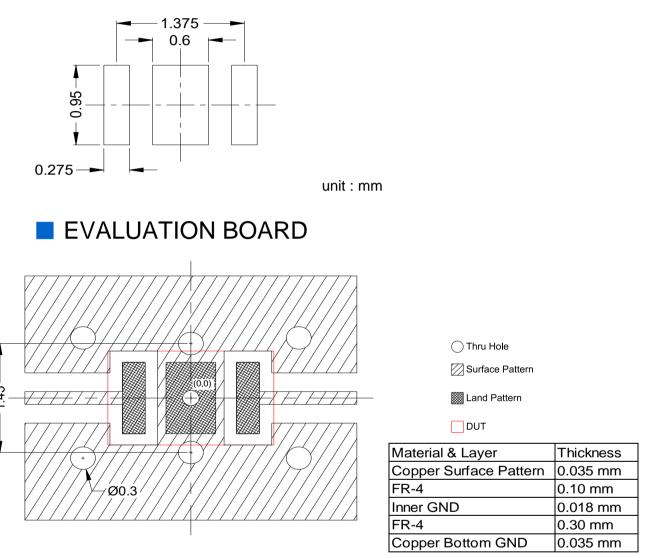
Attenuation



P/N Freq	DE A203750BT- 2292A1		
100	62.34	3050	6.11
915	47.06	4450	12.56
1 427	52.80	4900	39.28
1467	54.18	5925	47.25
1626.5	69.90	6600	42.86
1660.5	78.66	8400	39.1.0
1695	65.88	9900	44.30
1785	55.44	12600	48.23
1850	51.65		
2025	45.27		
2300	40.06		
2400	39.30		
2495	39.73		
2496	39.74		
2690	46.50		
2700	44.07		

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RECOMMENDED LAND PATTERN



unit : mm

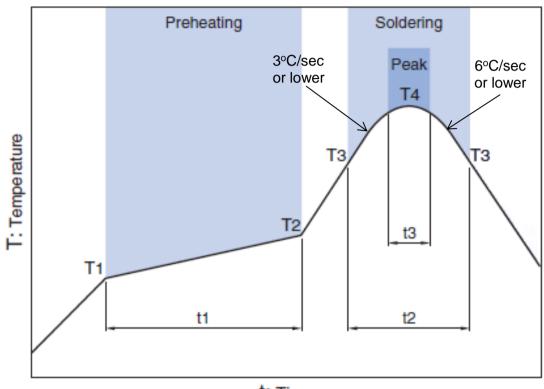
- * Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.
- ** The position of the throuh hole which have possibility of influence to the prerformance are indicated by dimension line.

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



U: 1	Ime

		Droho	ating	Soldering						
	Preheating		Critical zon	e (T3 to T4)	Peak					
	Temp.		Time	Temp.	Time	Temp.	Time			
	T1 T2		t1	Т3	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

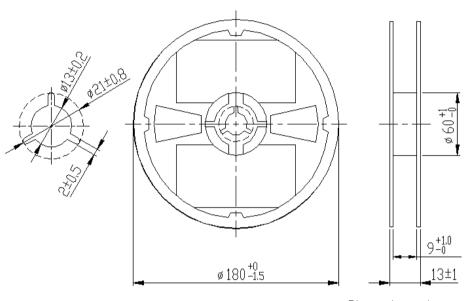
The maximum number of reflow is 3.

Note: Lead free solder is recommended. Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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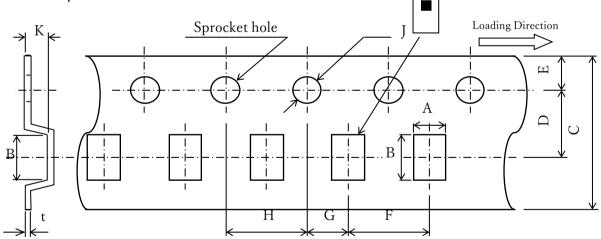
PACKAGING STYLE

Reel Dimensions



Dimensions in mm

Carrier Tape



Dimensions (mm)

	Α	В	С	D	E	F	G	H	J	K	t
ſ	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.

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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 SSM1-501P-10T1
 4700-009MLF
 0805J1000470MATE03

 CX0603MRX7R6BB104
 CX1206MKX7R9BB104
 CX0603MRX7R9BB103
 DSS1NB32A471Q93A
 DSS1NB32A101Q55B

 YFF18SC1H222MT0H0N
 CKD61BJB0J474ST0H0N
 YFF15SC1E103MT000N
 NFM15CC222D1A3D
 NFM15CC223C1C3D

 NFM15CC223C1A3D
 NFM18PC225B1A3D
 CX0603MRX5R6BB224
 CX0603MRX7R9BB103
 CX0805MRX7R0BB103

 CX1206MKX7R7BB224
 CX1206MKX7R9BB104
 NFM31HK104R1H3L
 NFM31HK223R1H3L
 0805J0500223MXTE01

 0805J0500473MXTE03
 0805J10001221MCTE01
 0805Y0500473MXTE07
 0805J1000332MXTE03

 0805J1000470MCTE01
 0805J1000103MXTE01
 0805J1000322MXTE07

 0805J1000470MCTE01
 0805J1000103MXTE01
 0805J1000322MXTE07

 0805J1000470MCTE01
 0805J1000103MXTE01
 0805J1000322MXTE07

 0805J1000470MCTE01
 0805J1000103MXTE01
 0805J1000322MXTE07

 0805J1000470MCTE01
 NFM15PC224R1A3D
 CX0603MRX7R0BB472
 CX0603MRX7R7BB473

 DSS1NB32A223Q91A
 DSS1NB31H104Q91A
 NFE31PT101C1E9L
 NFE61PT681B1H7681D2A9L
 NFE61PT330B1H9L

 NFE61PT681B1H9L
 NFM31KC104R1H3L
 NFM31KC104R1H3L