

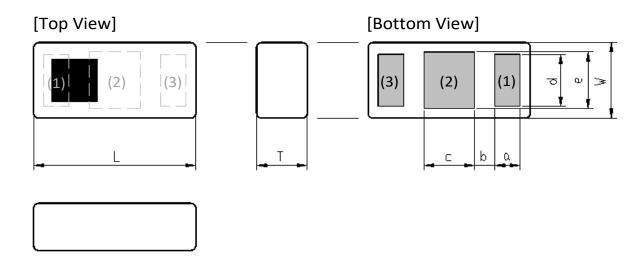
Multilayer Band Pass Filter
WiFi 5g C-band

DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA166200BT-2356A3**

DEA166200BT-2356A3

SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	_	а	b	C	d	e
1.60	0.80	0.65	0.25	0.23	0.40	0.55	0.60
+/-0.15	+/-0.10	Max	+/-0.10	+/-0.10	+/-0.10	+/-0.15	+/-0.15

Terminal functions

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

TERMINATION FINISH

Material
Ag

DEA166200BT-2356A3

ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Frequency		/N/ILI=\	TDK Spec		
Parameter			(IVITZ)	Min.	Тур.	Max.
Insertion Loss (dB)	5150	to	5710	-	1.31	1.60
	5710	to	5925	•	1.27	1.60
	5925	to	6425	-	1.27	1.60
	6425	to	7125	-	1.15	1.60
	7125	to	7250	-	1.15	1.60
Insertion Loss (dB)	5150	to	5710	-		1.90
–40 to +90 °C	5710	to	5925	-		1.90
	5925	to	6425	-		1.90
	6425	to	7125	-		1.90
	7125	to	7250	1		2.10
Return Loss@Input (dB)	5150	to	5925	6	10	-
	5925	to	7125	6	10	-
	7125	to	7250	8	12	-
Return Loss@Output (dB)	5150	to	5925	6	9	-
	5925	to	7125	6	9	-
	7125	to	7250	8	12	-
Attenuation (dB)	100	to	960	40	55	-
	1166	to	1249	40	50	-
	1427	to	1610	40	47	-
	1695	to	2200	40	43	-
	2300	to	2370	40	43	-
	2400	to	2483	40	43	-
	2496	to	2690	40	42	-
	3300	to	4200	38	44	-
	4500	to	4600	12	20	-
	4800	to	4900	1	3	-
	7250	to	7800	0	1	-
	7600	to	8400	1	3	-
	9000	to	9200	30	51	-
	9600	to	9800	30	41	-
	10300	to	11850	30	43	-
	11850	to	14250	24	28	-

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



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MAXIMUM RATINGS

Parameter	TDK Spec	Conditions	
Operating temperature (°C)		–40 to +90 °C	
Storage temperature (°C)		–40 to +90 °C	
Power Handling (W)	Frequency (MHz)		
	5150 to 7250	1	CW
Human Body Model: HBM	@Each Port (V)	+/-1000	100pF / 1500ohm
Machine Model : MM	@Each Port (V)	+/-150	200pF / 0ohm
Charged Device Model: CDM	@Each Port (V)	+/-500	Humidity: 60%RH max

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

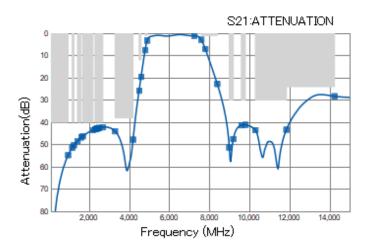


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FREQUENCY CHARACTERISTICS



P/N Freq	DEAI 66200BT- 2356A3_ver_1_0_20200609
5150	1.31
5710	1.18
5925	1.27
6425	0.67
71 25	1.15
7250	1.14



P/N Freq	DEAI 66200BT- 2356A3_ver_1_0_20200609
100	99.62
960	54.77
1166	51.44
1249	5034
1427	48.42
1610	46.81
1695	46.20
2200	43.47
2300	43.07
2370	42.93
2400	42.81

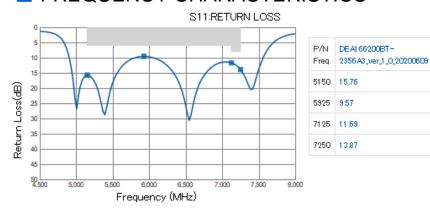
P/N Freq	DEAI 66200BT+ 2356A3_ver_1_0_20200609
2483	42.57
2496	42.53
2690	42.22
3300	43.99
4200	47.80
4500	25.77
4600	19.55
4800	7.57
4900	330
7250	1.14

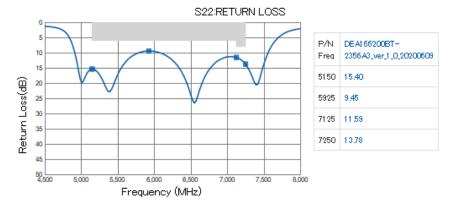
P/N Freq	DEAI 66200BT+ 2356A3_ver_1_0_20200609
7600	2.91
7800	7.02
8400	22.78
9000	51.33
9200	47.46
9600	41.29
9800	41.15
10300	43.46
11850	43.33
14250	28.32

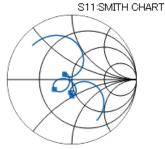


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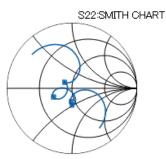
■ FREQUENCY CHARACTERISTICS







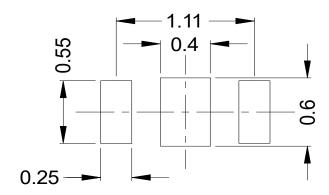
P/N Freq	DEAI 66200BT- 2356A3_ver_1_0_20200609
5150	37.75 / 7.48
5925	26.13 / -8.85
71 25	43.18 / -24.1
7250	43.69 / -18.27



	DEAL66200BT- 2356A3_ver_1_0_20200609
5150	37.57 / 8.29
5925	25.58 / -7.59
71 25	42.81 / -24.2
7250	43.92 / -18.64

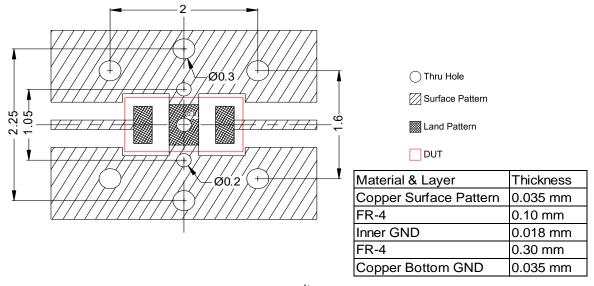
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RECOMMENDED LAND PATTERN



Unit: [mm]

EVALUATION BOARD



unit: mm

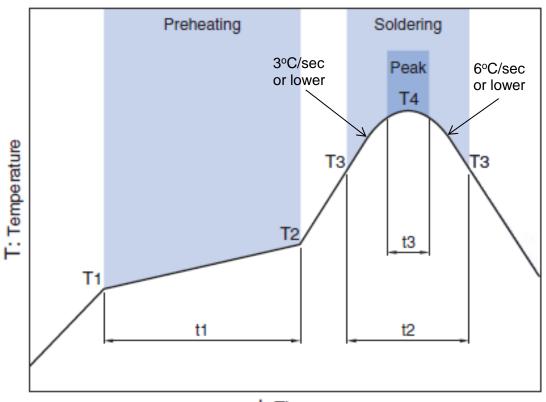
- * Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.
- ** The position of the throuh hole which have possibility of influence to the prerformance are indicated by dimension line.

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



t: Time

Preheating			Soldering				
Preneating		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.

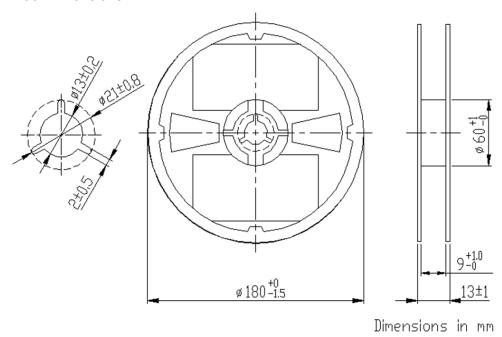
Note: Lead free solder is recommended.

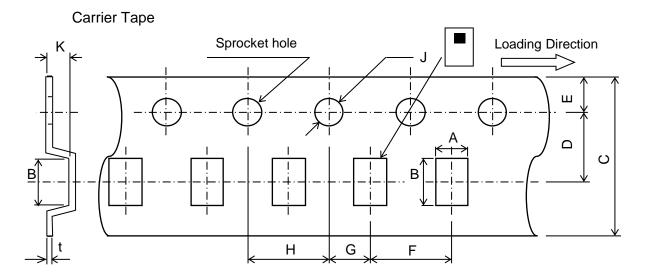
Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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PACKAGING STYLE

Reel Dimensions





Dimensions (mm)

Α	В	C	D	Е	F	G	Η	J	K	t
0.97	1.8	8.0	3.5	1.75	4.0	2.0	4.0	1.5	8.0	0.25
+/-0.05	+/-0.05	+/-0.2	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.05

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.

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MAPDCC0005 3A325 BD0810N50100AHF DC0710J5005AHF DC2327J5005AHF LFL15869MTC1B787 X3C19F1-20S

CDBLB455KCAX39-B0 RF1353C 051157-0000 PD0922J5050D2HF 600S150FTRB 1E1305-3 1F1304-3S TP-103-PIN

BD1222J50200AHF BD1722J50100AHF 2450DP39K5400E BD0810J50150AHF BD1722J50200AHF DS-327-PIN MACP-008125
CK07F0 DS-329-PIN DS-313-PIN TP-104-PIN TP-101-PIN HH-128-PIN 8594810000 T-1000-N JP506S XC0900P-10S XC0900B-30S

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B39242B4360P810 B39781B8005P810