

Multilayer Low Pass Filter

For 700-3800MHz

DEA Series 1.0x0.5mm [EIA 0402] TYPE

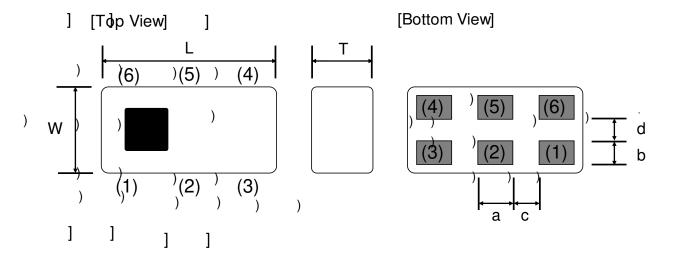
P/N: **DEA103800LT-6328B3**

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Oct. 2016 Ver.3.1 TDK Corporation

DEA103800LT-6328B3

SHAPES AND DIMENSIONS



Dimensions (mm)

		,				
L	W	Т	а	b	С	d
1.00	0.50	0.40	0.18	0.125	0.18	0.15
+/-0.05	+/-0.05	Max	+/-0.05	+/-0.05	+/-0.05	+/-0. β /5

Terminal functions

(1)	NC
(2)	GND
(3)	NC

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

■ TEMPERATURE RANGE



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

Material
Materiai
Au plate
Au biaie

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ELECTRICAL CHARACTERISTICS

(Measurement)

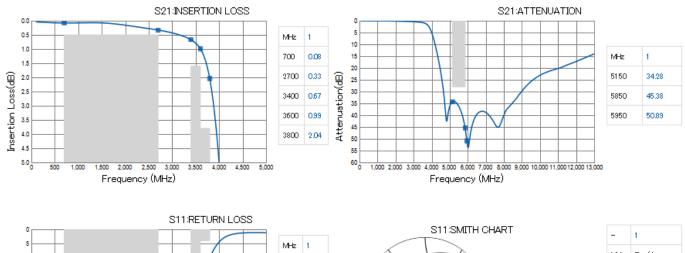
Parameter	Eroguo	Frequency (MHz)			TDK Target Spec			
Parameter	r requericy (wiriz)			Min.	Тур.	Max.		
Insertion Loss (dB)	700	to	2700	-	0.33	0.50		
	3400	to	3600	-	0.99	1.60		
	3600	to	3800	-	2.04	3.80		
Insertion Loss (dB)	700	to	2700	-	-	0.60		
	3400	to	3600	-	-	1.90		
(–40 to +85 °C)	3600	to	3800	-	-	4.60		
Return Loss (dB)	700	to	2700	10	19	-		
	3400	to	3600	10	20	-		
	3600	to	3800	4	10	-		
Attenuation (dB)	5150	to	5850	28	34	-		
Input Power Rating (W)	700	to	2700	-	-	4		
(50% duty)	3400	to	3800	-	-	2		
Characteristic Impedance (ohm)				50	(Nomi	nal)		

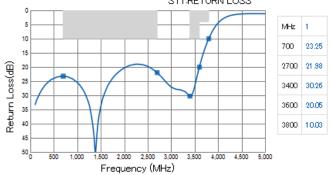
 $Ta = +25 + /-5 ^{\circ}C$

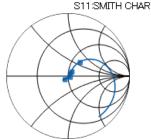
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FREQUENCY CHARACTERISTICS

(Measurement)



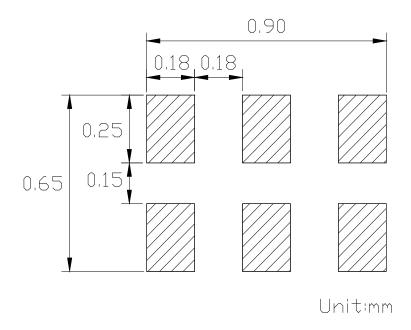




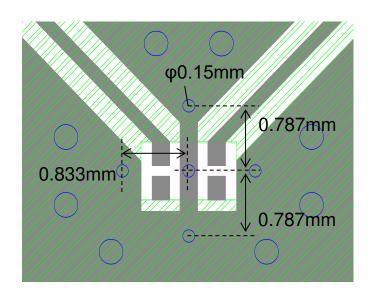
	1
/Hz	Re / Im
00	0.03 / 0.06
700	-0.06 / -0.05
400	0.03 / -0.01
600	0.06 / 0.08
800	0.2 / 0.24
	700 400 600

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EVALUATION LAND PATTERN



EVALUATION BOARD



\bigcirc	Thru Hole
	Resist
	Surface Pattern

Material & Layer	Thickness
Top Resist	-
Copper Surface Pattern	0.035mm
FR-4	0.10mm
Inner GND	0.018mm
FR-4	0.30mm
Copper Bottom Pattern	0.035mm



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SOLDERING INFORMATION

Metal Mask

Thickness: 80um

Opening to Land Pattern: 100%

Solder Paste

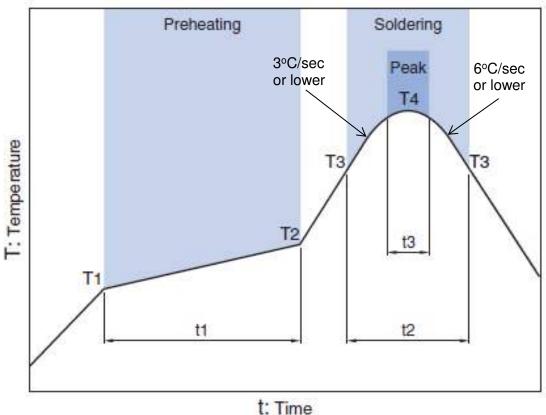
SAC; Sn-3.0Ag-0.5Cu (TDK evaluation)

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



Proposting			Soldering					
Preheating			Critical zon	e (T3 to T4)	Peak			
Ter	mp.	Time	Temp. Time		Temp.	Time		
T1	T2	t1	Т3	T3 t2		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.

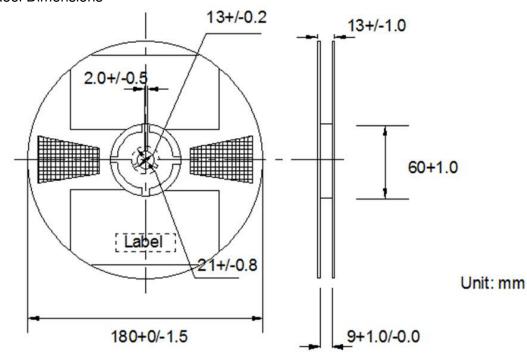
Note: Lead free solder is recommended.

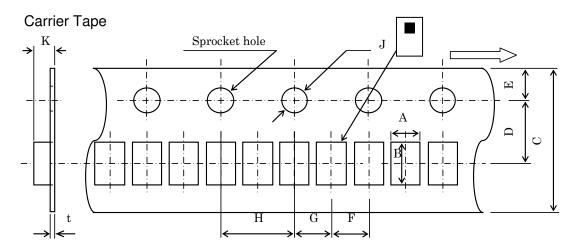
Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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PACKAGING STYLE

Reel Dimensions





Dimensions (mm)

Α	В	O	D	ш	F	G	Η	J	K	t
0.62	1.12	8.0	3.5	1.75	2.0	2.0	4.0	1.5	0.48	0.25
+/-0.05	+/-0.05	+/-0.2	+/-0.05	+/-0.1	+/-0.05	+/-0.05	+/-0.05	+0.1/-0	MAX	+/-0.05

STANDARD PACKAGE QUANTITY
(pieces/reel)
10,000

All specifications are subject to change without notice. Before using these products, be sure to request the delivery specifications.



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 catalog 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 catalog.

- (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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