



Multilayer Low Pass Filter

For 2647-3500MHz

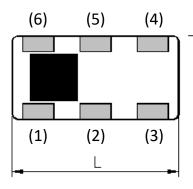
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA163500LT-5106C1**

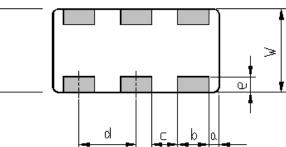
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SHAPES AND DIMENSIONS

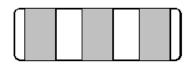
[Top View]







[Bottom View]



Dimensions (mm)

	1010110	()					
L	W	Т	а	b	C	d	е
1.60	0.80	0.60	0.10	0.30	0.25	0.55	0.15
+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10

Terminal functions

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

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

TERMINATION FINISH

Material	
Sn plate	

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ELECTRICAL CHARACTERISTICS

(Measurement)

Deremeter	Frague			TI	OK Sp	ес
Parameter	Freque	ncy		Min.	Тур.	Max.
Insertion Loss (dB)	2647	to	3500	-	0.51	0.60
Insertion Loss (dB)	2647	to	3500	-	-	0.71
(–40 to +105 °C)						
Return Loss@Input (dB)	2647	to	3500	10	16.9	-
Return Loss@Input (dB)	2647	to	3500	10	-	-
(–40 to +105 °C)						
Return Loss@Output (dB)	2647	to	3500	10	17.2	-
Return Loss@Output (dB)	2647	to	3500	10	-	-
(–40 to +105 °C)						
Attenuation (dB)	5294	to	6994	32	38.9	-
	7941	to	10491	27	35.4	-
	10588	to	13988	25	30.8	-
Attenuation (dB)	5294	to	6994	30	-	-
(-40 to +105 °C)	7941	to	10491	26	-	-
· · · · · · · · · · · · · · · · · · ·	10588	to	13988	23	-	-
Characteristic Impedance (ohm)				50	(Nomi	nal)

Ta = +25+/-5°C

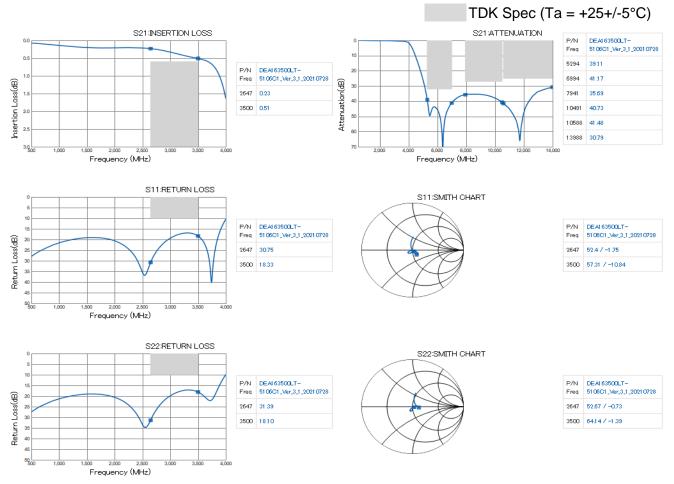
MAXIMUM RATINGS

Parameter	TDK Spec		Conditions			
Operating temperature (°C)				–40 to +105 °C		
Storage temperature (°C)				–40 to +105 °C		
Power Handling (W) *1	Freque	ncy	(MHz)			
	2647	to	3500	2	CW	Duty 100%
Human Body Model : HBM	@Ea	ch P	ort (V)	TBD	100pF /	1500ohm
Machine Model : MM	<pre>@Each Port (V)</pre>		TBD	200pF / 0ohm		
Charged Device Model : CDM @Each Port (V)			TBD	Humidit	y : 60%RH max	

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

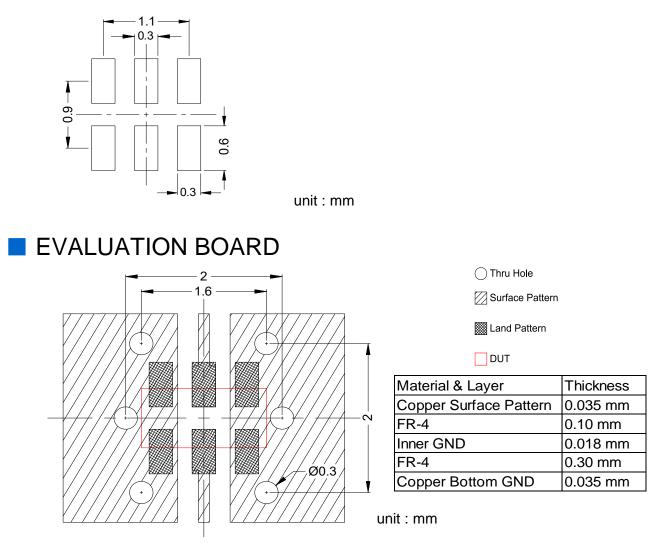
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FREQUENCY CHARACTERISTICS



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RECOMMENDED LAND PATTERN



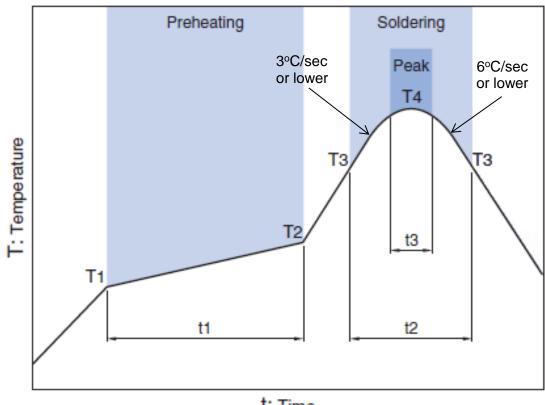
- * Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.
- ** The position of the throuh hole which have possibility of influence to the prerformance are indicated by dimension line.

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

TDK Corporation

RECOMMENDED REFLOW PROFILE



ŧ٠	Time	
ι.	nme	

	Drohe	ating		Soldering					
Preheating			Critical zon	e (T3 to T4)	Peak				
Te	Temp. Time		Temp.	Temp. Time		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)

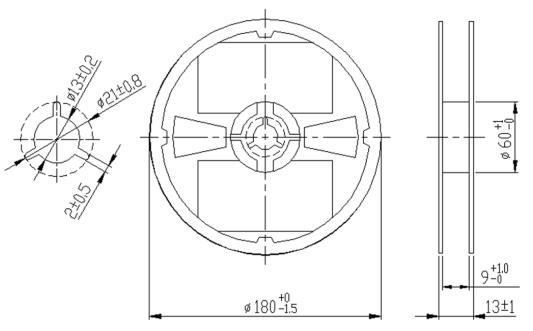
GENERAL TECHNICAL INFORMATION

https://product.tdk.com/en/system/files?file=dam/doc/product/rf/rf/coupler/general_tech_info/rf_general-technical-info_02_en.pdf

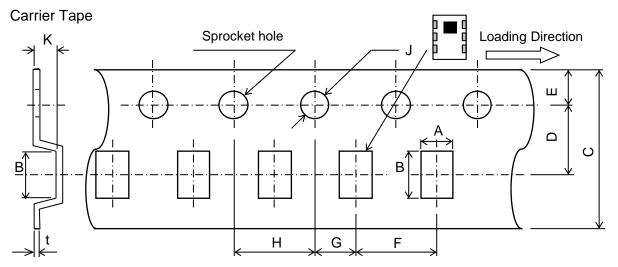
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PACKAGING STYLE

Reel Dimensions



Dimensions in mm



Dimensions (mm)

Α	В	С	D	Е	F	G	Н	J	Κ	t
										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

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

⊗TDK

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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