



July. 2016 Ver.2.0
TDK Corporation

Multilayer Low Pass Filter

For 2400-2500MHz

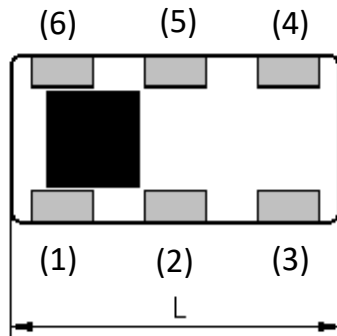
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA162500LT-5033F1**

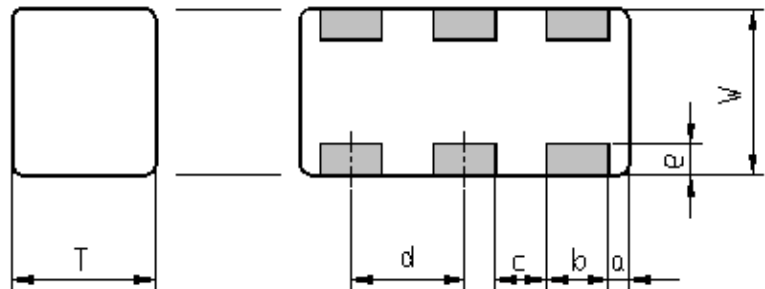
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■ SHAPES AND DIMENSIONS

[Top View]



[Bottom View]



Dimensions (mm)

L	W	T	a	b	c	d	e
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)	Input Port
(3)	GND
(4)	GND
(5)	Output Port

(6)	GND
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■ TEMPERATURE RANGE

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

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■ ELECTRICAL CHARACTERISTICS

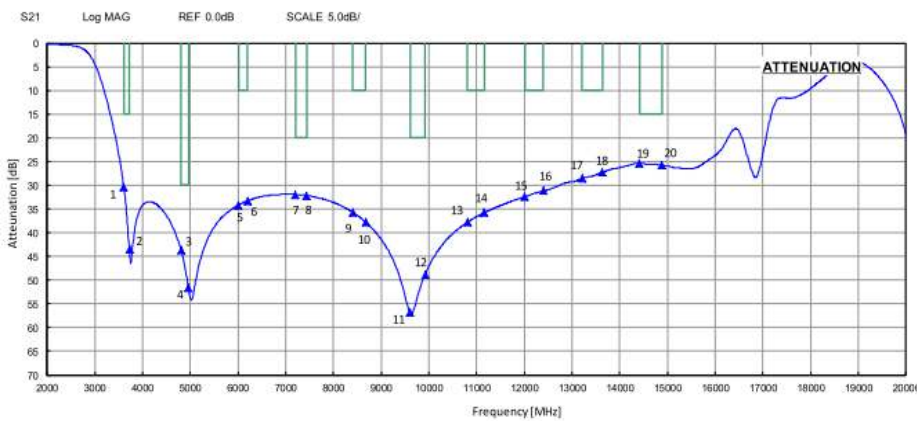
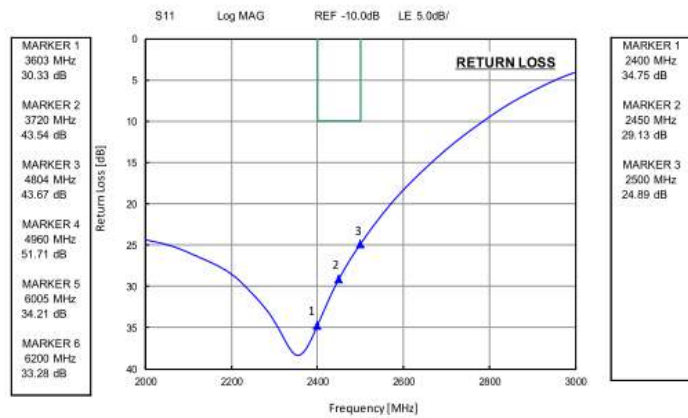
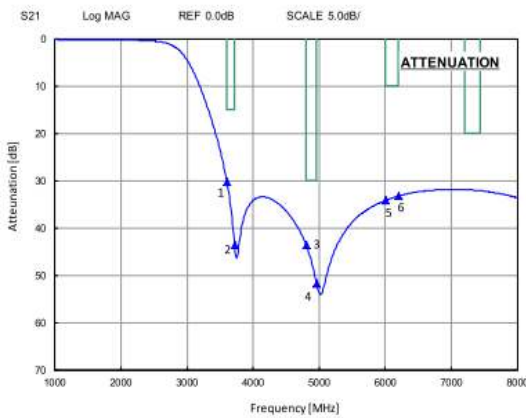
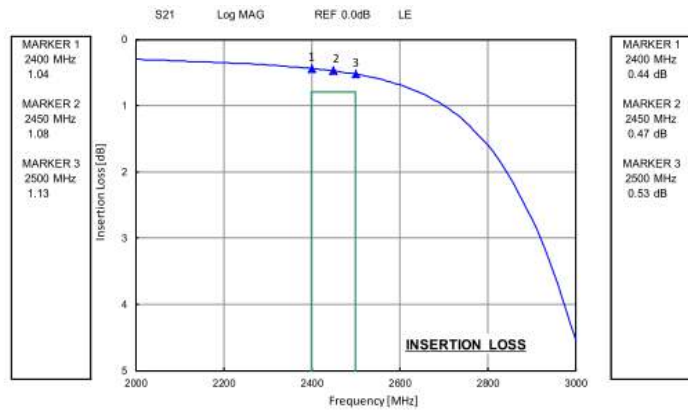
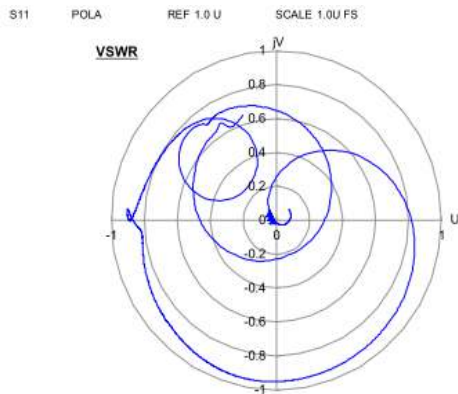
(Measurement)

Parameter	Frequency (MHz)	TDK Spec		
		Min.	Typ.	Max.
Insertion Loss (dB)	2400 to 2500	-	0.53	0.80
		-		
VSWR	2400 to 2500	-	1.13	2.0
		-		
Attenuation (dB)	3603 to 3720	15	30	-
	4804 to 4960	30	43	-
	6005 to 6200	10	33	-
	7206 to 7440	20	31	-
	8407 to 8680	10	35	-
	9608 to 9920	20	48	-
	10809 to 11160	10	35	-
	12010 to 12400	10	31	-
	13211 to 13640	10	27	-
14412 to 14880	15	25	-	
Characteristic Impedance (ohm)		50 (Nominal)		

 $T_a = +25 \pm 5^\circ\text{C}$

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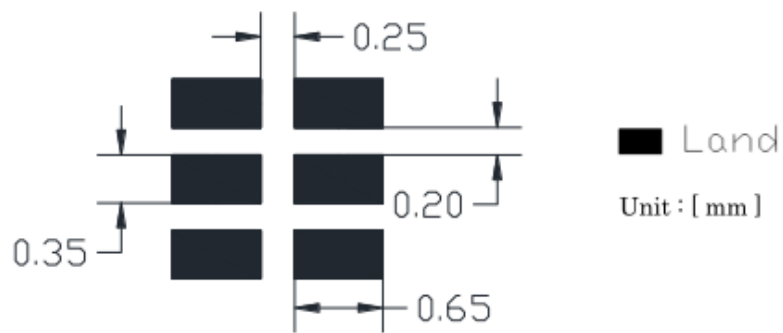
FREQUENCY CHARACTERISTICS



MARKER 7 7206 MHz 31.95 dB	MARKER 13 10909 MHz 37.78 dB	MARKER 19 14412 MHz 25.37 dB
MARKER 8 7440 MHz 32.17 dB	MARKER 14 11160 MHz 35.78 dB	MARKER 20 14880 MHz 25.80 dB
MARKER 9 8407 MHz 35.73 dB	MARKER 15 12010 MHz 32.45 dB	
MARKER 10 8690 MHz 37.85 dB	MARKER 16 12400 MHz 31.19 dB	
MARKER 11 9808 MHz 58.88 dB	MARKER 17 13211 MHz 28.54 dB	
MARKER 12 9920 MHz 48.87 dB	MARKER 18 13640 MHz 27.31 dB	

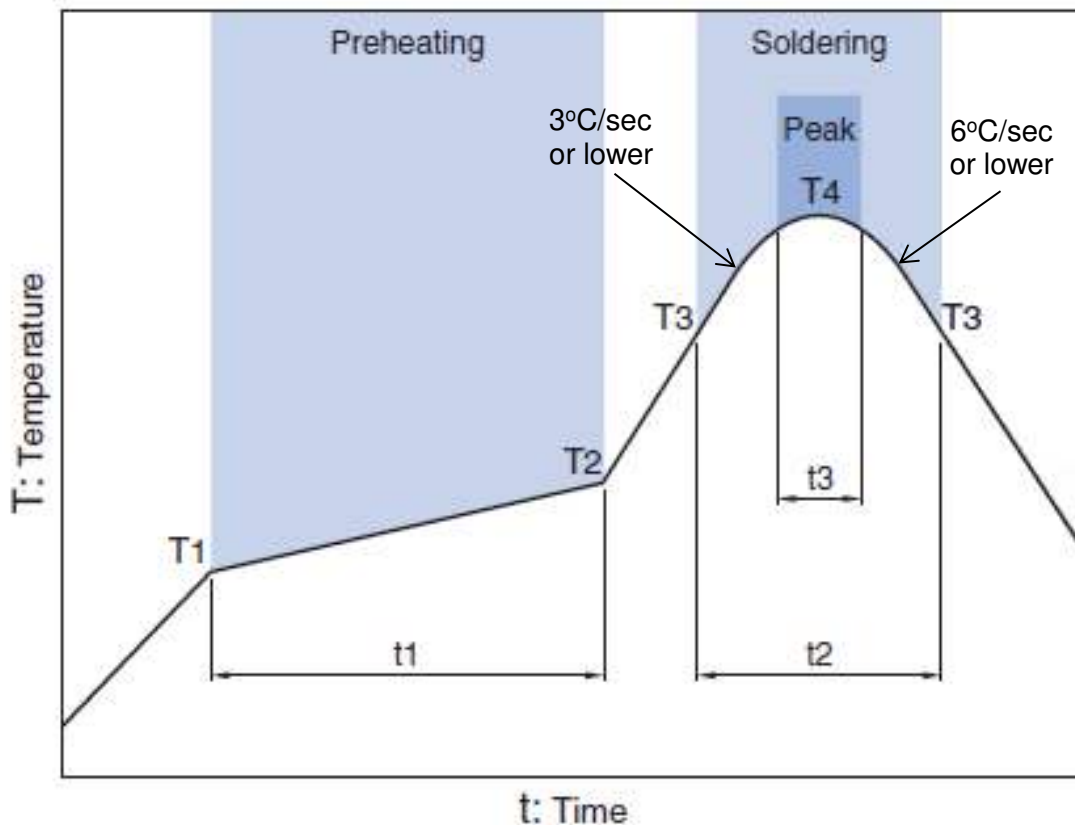
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■ RECOMMENDED LAND PATTERN



■ ENVIRONMENT INFORMATION

RoHS Statement
RoHS Compliance

DEA162500LT-5033F1**RECOMMENDED REFLOW PROFILE**

Preheating			Soldering			
			Critical zone (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)

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 | (8) Public information-processing equipment |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (9) Military equipment |
| (3) Medical equipment | (10) Electric heating apparatus, burning equipment |
| (4) Power-generation control equipment | (11) Disaster prevention/crime prevention equipment |
| (5) Atomic energy-related equipment | (12) Safety equipment |
| (6) Seabed equipment | (13) Other applications that are not considered general-purpose applications |
| (7) Transportation control equipment | |

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.