

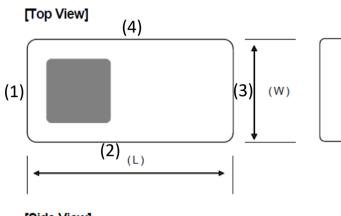
Multilayer Low Pass Filter For 2.4GHz W-LAN & Bluetooth

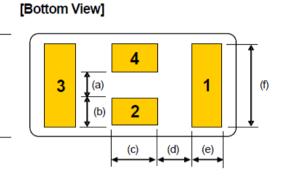
DEA Series 1.6x0.8mm [EIA 0603] TYPE



### DEA162500LT-5123A1SJ

# SHAPES AND DIMENSIONS





#### [Side View]



#### Dimensions (mm)

Dimensione									
	LW		Т	а	b	С	d	е	f
	1.60	0.80	0.35	0.21	0.22	0.40	0.30	0.225	0.65
	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05

#### **Terminal functions**

(1)	Input Port
(2)	GND

(3)	Output Port	
(4)	GND	

# TERMINATION FINISH

Material	
Au plate	

# DEA162500LT-5123A1SJ

# ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Froquo	nov	(MU-)	TDK Spec		
Farameter	Frequency (MHz)			Min.	Тур.	Max.
Insertion Loss (dB)	2400	to	2500	-	0.33	0.48
Insertion Loss (dB)	2400	to	2500	-	-	0.63
( −40 to +85 °C )						
VSWR	2400	to	2500	-	1.17	1.40
Attenuation (dB)	4800	to	5000	35	49.2	-
	7200	to	7500	35	46.3	-
Characteristic Impedance (ohm)				50	(Nomii	nal)

Ta = +25+/-5°C

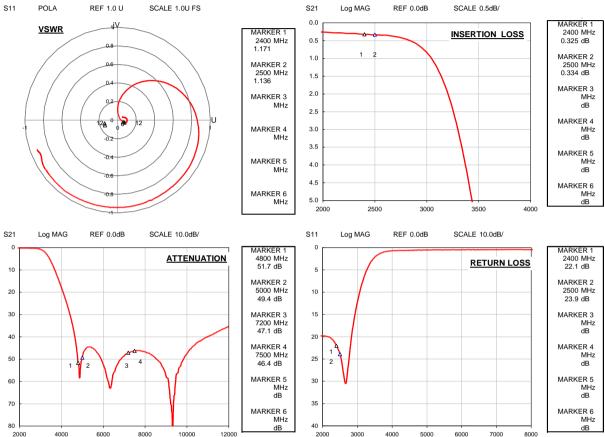
### MAXIMUM RATINGS

Parameter		TDK S	Spec	Conditions
Falameter		Min.	Max.	Conditions
			+85 °C	
			+85 °C	
Power Handling (W)		-	1	CW For WLAN
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

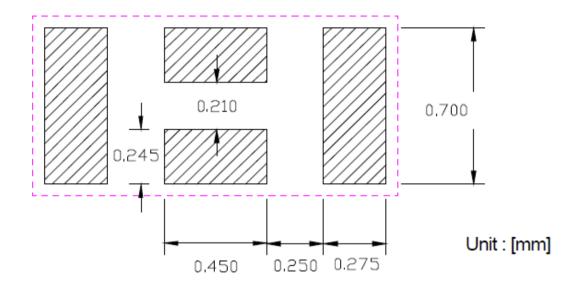
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# RECOMMENDED LAND PATTERN

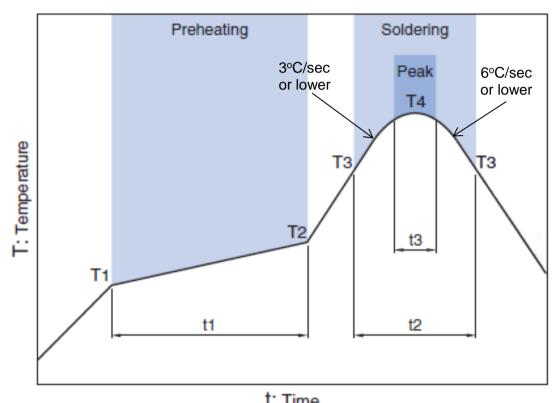


### ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

### DEA162500LT-5123A1SJ

# RECOMMENDED REFLOW PROFILE



	 IC.	

	Brohe	eating	Soldering						
	Frene	ating	<b>Critical zon</b>	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)

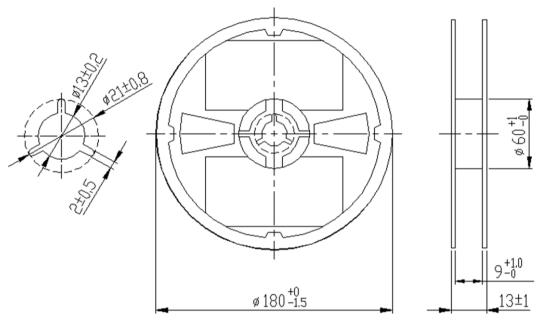
⊗TDK

Jun. 2018 Ver.1.0 TDK Corporation

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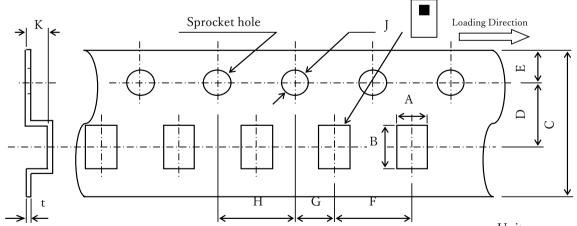
# PACKAGING STYLE

**Reel Dimensions** 



Dimensions in mm





Unit : mm

#### Dimensions (mm)

Α	В	С	D	E	F	G	Н	J	K	t
0.97	1.80	8.00	3.50	1.75	4.00	2.00	4.00	1.50	0.55	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.

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# 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.

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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.