

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

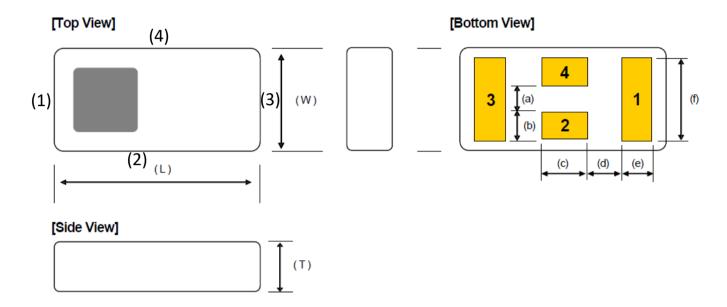
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA162500LT-5123A1SJ** 



# **DEA162500LT-5123A1SJ**

## SHAPES AND DIMENSIONS



Port

Dimensions (mm)

	,,,,,,	1010110	\						
	Г	W	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	(3)	Output
(2)	GND	(4)	GNI

# TERMINATION FINISH

Material
Au plate



# **DEA162500LT-5123A1SJ**

# ELECTRICAL CHARACTERISTICS

( Measurement )

Parameter	Freque	nev	/MH-/	TDK Spec		
Farameter	rreque	псу	(IVITIZ)	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	1.17	1.40
Attenuation (dB)	4800	to	5000	35	49.2	-
	7200	to	7500	35	46.3	-
Characteristic Impedance (ohm)				50	(Nomii	nal)

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

## MAXIMUM RATINGS

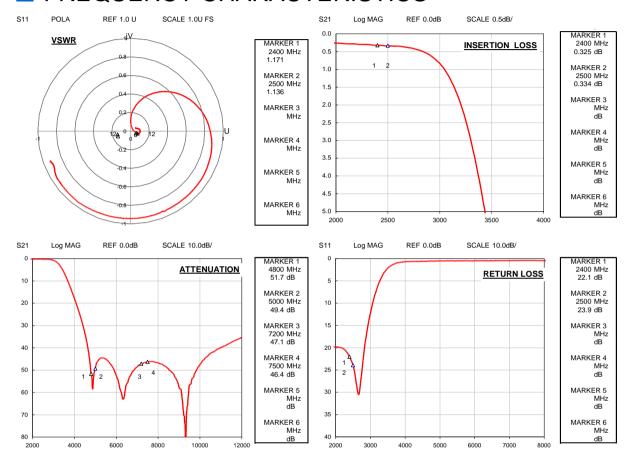
Parameter		TDK Spec		Conditions		
Farameter		Min.	Max.	Conditions		
Operating temperature (°C)		–40 to -	+85 °C			
Storage temperature (°C)		–40 to -	+85 °C			
Power Handling (W)		-	1	CW For WLAN		
Human Body Model : HBM	@Each Port (V)	-1000	1000	100pF / 1500ohm		
Machine Model : MM	@Each Port (V)	-150	150	200pF / 0ohm		
Charged Device Model : CDM	@Each Port (V)	-500	500	Relative humidity: 60%RH max		

Ambient temperature: +25+/-5°C



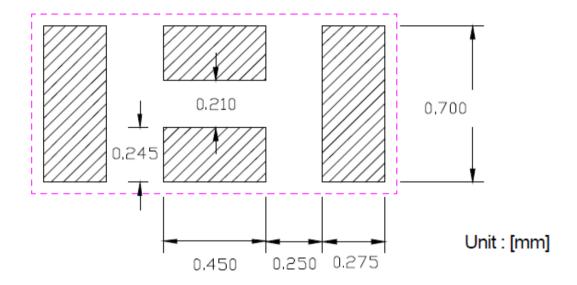
## **DEA162500LT-5123A1SJ**

# FREQUENCY CHARACTERISTICS



# **DEA162500LT-5123A1SJ**

## RECOMMENDED LAND PATTERN

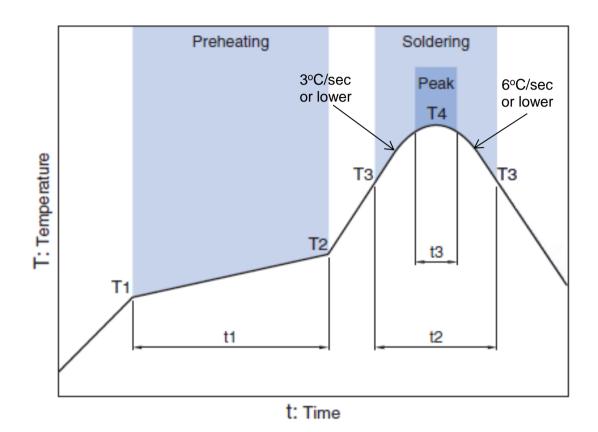


## ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

# **DEA162500LT-5123A1SJ**

## RECOMMENDED REFLOW PROFILE



	Drobe	eating	Soldering						
	FIEIR	ailig	Critical zon	e (T3 to T4)	Peak				
Temp.		Time	Temp.	Time	Temp.	Time			
T1 T2		t1	T3	t2	T4	t3 *			
150°	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.

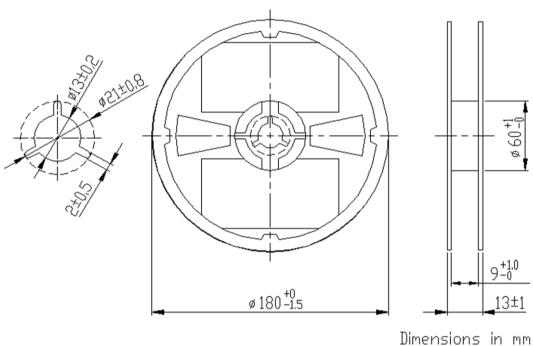
Note: Lead free solder is recommended.

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

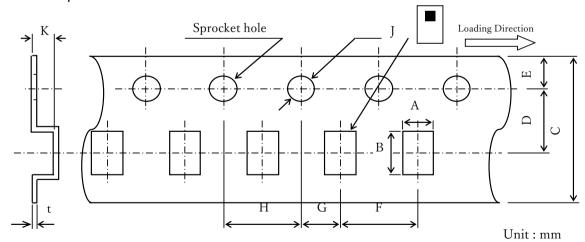
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# PACKAGING STYLE

#### **Reel Dimensions**



#### Carrier Tape



#### Dimensions (mm)

Α	В	С	D	Е	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



### 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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