

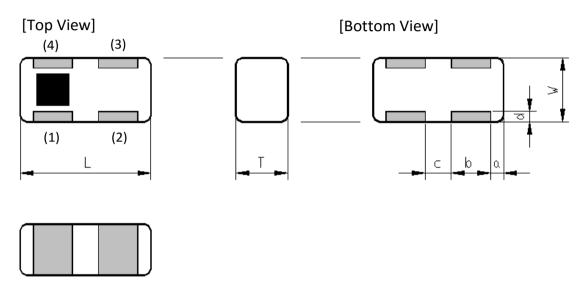
Multilayer High Pass Filter
5GHz W-LAN

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

P/N: **DEA105150HT-8044A1** 

# **DEA105150HT-8044A1**

## SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	T	а	b	С	d
1.00	0.50	0.42	0.10	0.30	0.20	0.12
+/-0.05	+/-0.05	Max	+/-0.10	+/-0.10	+/-0.10	+/-0.07

Terminal functions

(1)	In/Out Port
(2)	GND

(3)	GND		
(4)	Out/In Port		

#### TEMPERATURE RANGE

## TERMINATION FINISH

<b>Operating temperature</b>	Storage temperature
−40 to +85 °C	–40 to +85 °C

Material
Sn plate



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# ELECTRICAL CHARACTERISTICS

( Measurement )

Parameter	Frequency (MHz)			TDK Spec		
Farameter	Freque	псу	(1411-12)	Min.	Тур.	Max.
Insertion Loss (dB)	5150	to	5250	•	3.93	6.00
	5250	to	5350	-	2.05	3.00
	5500	to	5950	ı	0.82	1.10
Return Loss (dB)	5150	to	5250	5	10	-
	5250	to	5350	10	18	-
	5500	to	5950	10	22	-
Attenuation (dB)	4800	to	4960	10	15	-
Power Handling (W)	5150	to	5950	-		8.0
Characteristic Impedance (ohm)		•		50	(Nomi	nal)

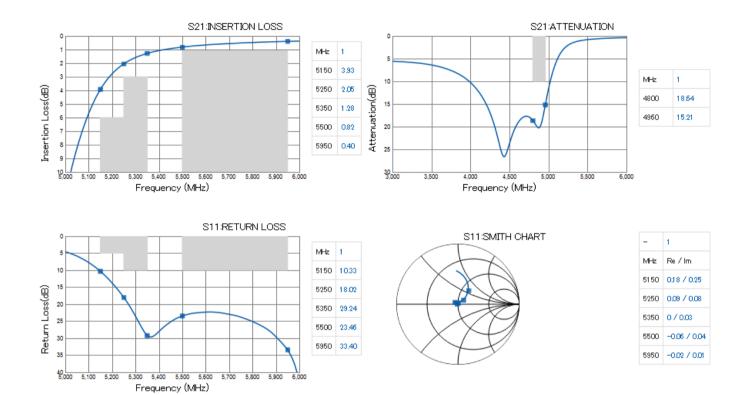
 $Ta = +25 + /-5 ^{\circ}C$ 



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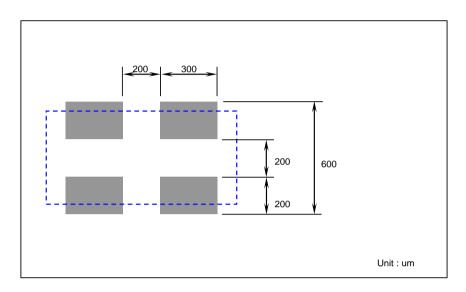
## ■ FREQUENCY CHARACTERISTICS

(Measurement)

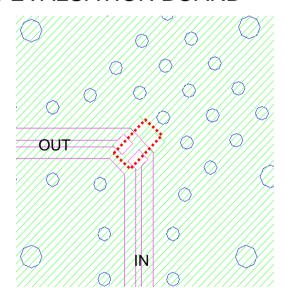


## DEA105150HT-8044A1

## RECOMMENDED LAND PATTERN



## EVALUATION BOARD



_	Metal (Cu)
_	Thru-Hole
_	Land
	DUT

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

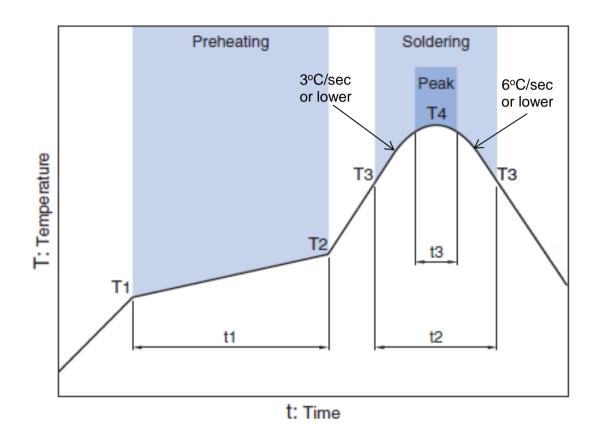
## **■ ENVIROMENT INFORMATION**

RoHS Statement RoHS Compliance

<sup>\*</sup> Line width should be designed to mach 50 ohm characteristic impedance depending on PCB material and thickness.

Ver. 6.2a TDK Corporation

## RECOMMENDED REFLOW PROFILE



		Drobe	ating	Soldering					
Preheating			ating	Critical zon	e (T3 to T4)	Peak			
	Ter	np.	Time	Temp.	Time	Temp.	Time		
1	T1	T2	t1	T3	t2	T4	t3 *		
15	50°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.

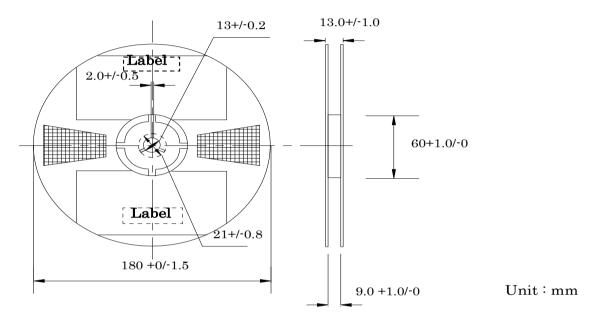
Note: Lead free solder is recommended.

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

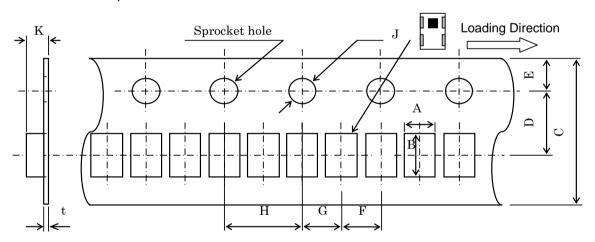
## **DEA105150HT-8044A1**

#### PACKAGING STYLE

#### **Reel Dimensions**



#### Carrier Tape



#### Dimensions (mm)

Α	В	C	D	Е	F	G	H	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



#### 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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