

Multilayer High Pass Filter
For LTE

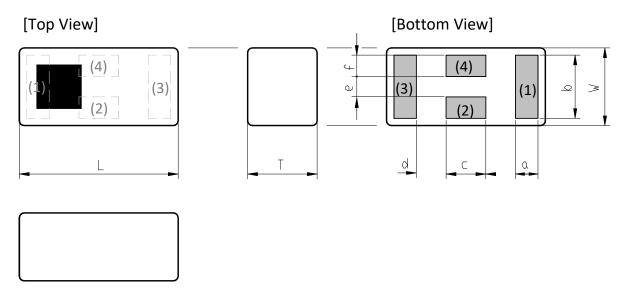
DEA Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DEA162300HT-8045A1** 



# **DEA162300HT-8045A1**

# SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	Т	а	b	С	d	е	f
1.60	0.80	0.65	0.225	0.65	0.40	0.30	0.21	0.22
+/-0.10	+/-0.10	Max	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05

**Terminal functions** 

(1)	Input Port	(3)	Output Port
(2)	GND	(4)	GND

# TERMINATION FINISH

Material
Ag



# **DEA162300HT-8045A1**

# ELECTRICAL CHARACTERISTICS

( Measurement )

Parameter	Freque	nev	/MU-/	TDK Spec		
Farameter	Freque	псу	(IVITIZ)	Min.	Тур.	Max.
Insertion Loss (dB)	2300	to	2400	-	0.92	1.10
	2496	to	2690	-	0.45	0.60
	2500	to	2690	-	0.44	0.60
Insertion Loss (dB)	2300	to	2400	-		1.30
(-40 to +85 °C)	2496	to	2690	-		0.80
	2500	to	2690	-		0.80
VSWR	2300	to	2400	-	1.31	2.00
	2496	to	2690	-	1.22	2.00
	2500	to	2690	-	1.22	2.00
Attenuation (dB)	1710	to	1995	25	27	-
	1995	to	2010	25	30	-
Characteristic Impedance (ohm)				50	(Nomir	nal)

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

## MAXIMUM RATINGS

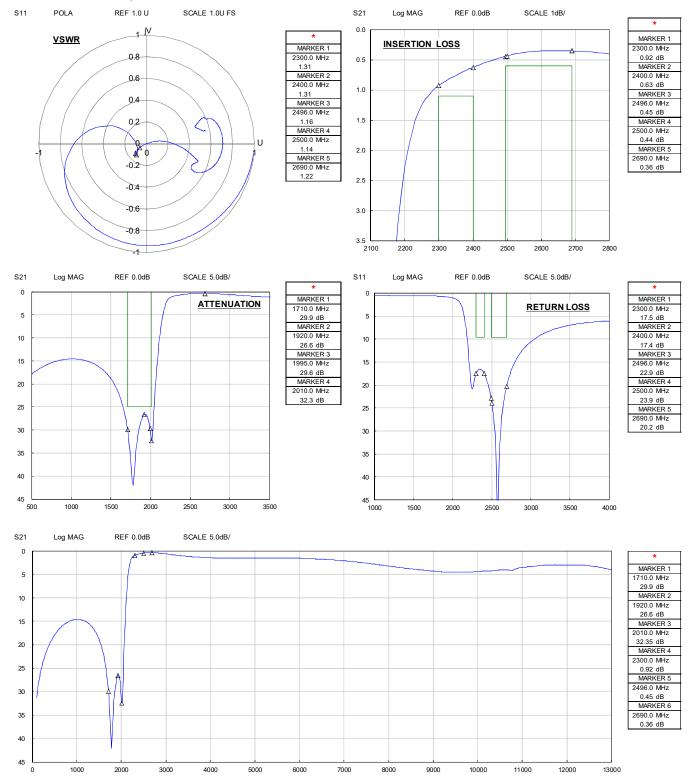
Parameter		TDK S	Spec	Conditions			
1 didilicter		Min.	Max.	Conditions			
Operating temperature (°C)		-40 to -	+85 °C				
Storage temperature (°C)			+85 °C				
Power Handling (W)		-	1	CW			
Human Body Model : HBM	@Each Port (V)	-1000	1000	100pF / 1500ohm			
Machine Model : MM	@Each Port (V)	-150	150	200pF / 0ohm			
Charged Device Model : CDM	@Each Port (V)	-500	500	Relative humidity : 51%RH max			

Ambient temperature : +25+/-5°C



## **DEA162300HT-8045A1**

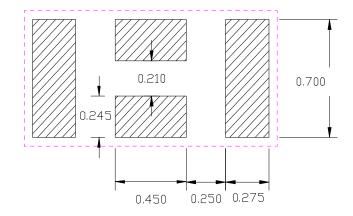
## FREQUENCY CHARACTERISTICS



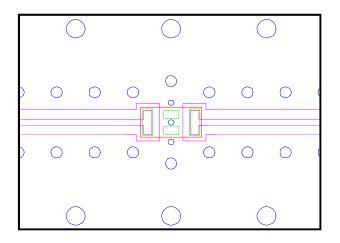


## **DEA162300HT-8045A1**

## RECOMMENDED LAND PATTERN



## EVALUATION BOARD



Thru hole
Resist
Surface Pattern
DUT

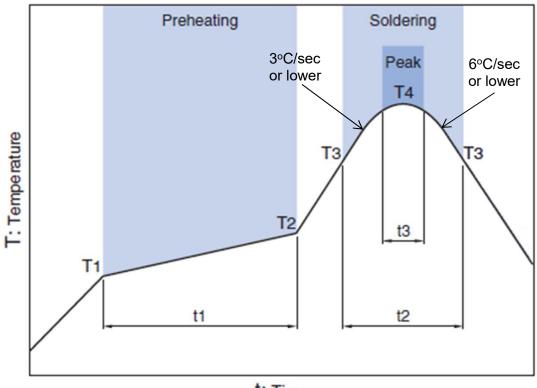
Material, Layer	Thickness
Top Resist	Resist
Copper Surface Pattern	0.035mm
FR-4	0.10mm
Copper Inner GND	0.018mm
FR-4	0.30mm
Copper Bottom GND	0.035mm

# ENVIRONMENT INFORMATION

RoHS Statement
RoHS Compliance

# **DEA162300HT-8045A1**

## ■ RECOMMENDED REFLOW PROFILE



t: Time

		Drobo	ating		Soldering					
Preheating			ating	Critical zon	e (T3 to T4)	Peak				
•	Ten	np.	Time	Temp. Time		Temp.	Time			
Т	1	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.

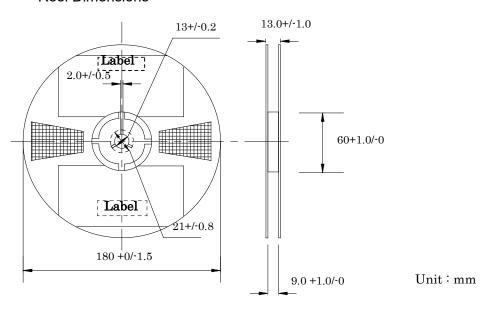
Note: Lead free solder is recommended.

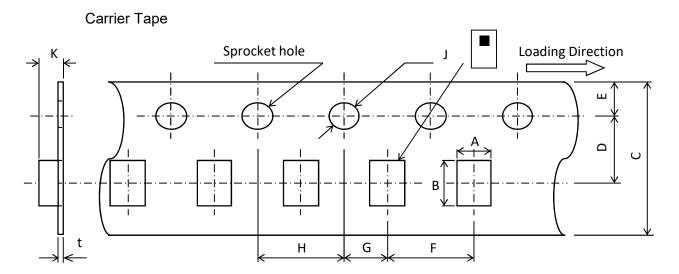
Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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# PACKAGING STYLE

#### **Reel Dimensions**





#### Dimensions (mm)

Α	В	С	D	Е	F	G	H	J	K	t
0.97	1.8	8.0	3.5	1.75	4.0	2.0	4.0	1.5	8.0	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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LFB212G45SG8C341 LFB322G45SN1A504 LFL182G45TC3B746 SF2159E 30057 1P510S CER0813B 3A325 40287 41180 ATB322575032NCT B69842N5807A150 BD0810N50100AHF BD2326L50200AHF BD2425J50200AHF HMC189AMS8TR C5060J5003AHF JHS114-PIN JP503AS DC0710J5005AHF DC2327J5005AHF DC3338J5005AHF 43020 LFB2H2G60BB1C106 LFL15869MTC1B787
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