

Multilayer High Pass Filter
For LTE

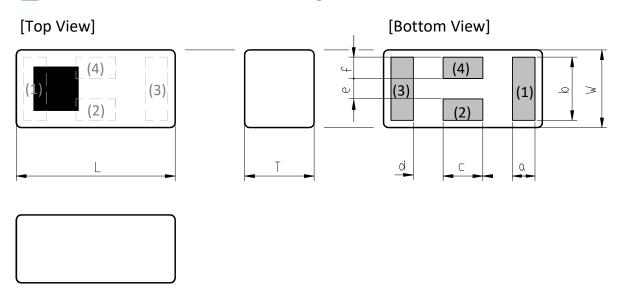
DEA Series 1.6x0.8mm [EIA 0603] TYPE

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



DEA162300HT-8045A1

SHAPES AND DIMENSIONS



Dimensions (mm)

		()						
L	W	T	а	b	С	d	е	f
1.60	0.80	0.65	0.225	0.65	0.40	0.30	0.21	0.22
+/-0.1	0 +/-0.10	Max	+/-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
Ag



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ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Frequency (MHz)			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

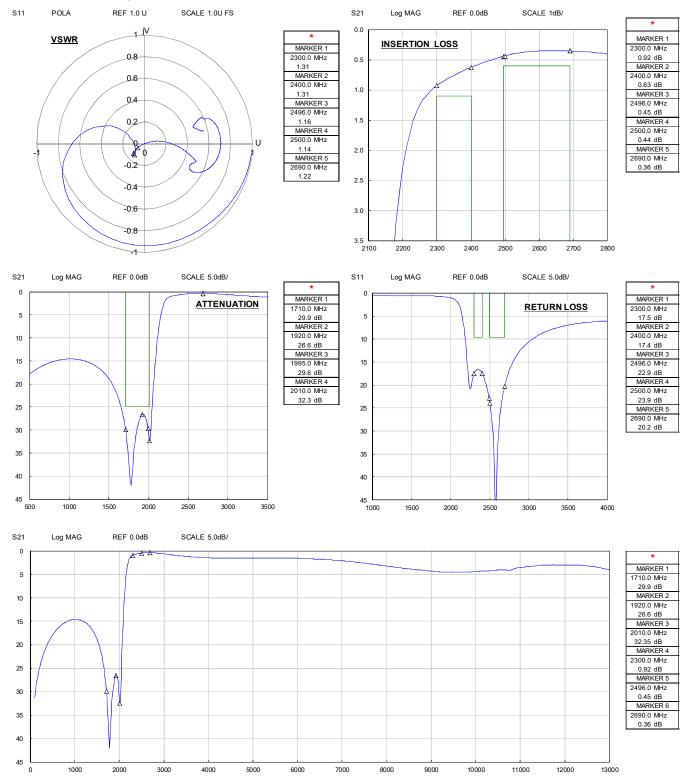
Parameter		TDK S	Spec	Conditions		
i arameter		Min.	Max.			
Operating temperature (°C)		-40 to -	+85 °C			
Storage temperature (°C)		-40 to -	+85 °C			
Power Handling (W)		-	1	CW		
Human Body Model : HBM	@Each Port (V)	-1000	1000	100pF / 1500ohm		
Machine Model : MM	@Each Port (V)	-150	150	200pF / 0ohm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

Ambient temperature : +25+/-5°C



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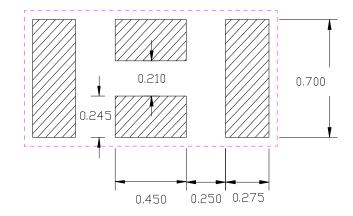
FREQUENCY CHARACTERISTICS



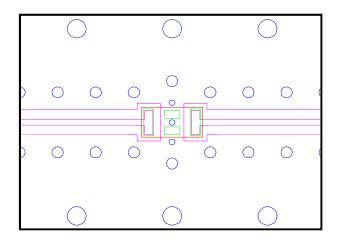


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RECOMMENDED LAND PATTERN



EVALUATION BOARD



Thru hole
Resist
Surface Pattern
DUT

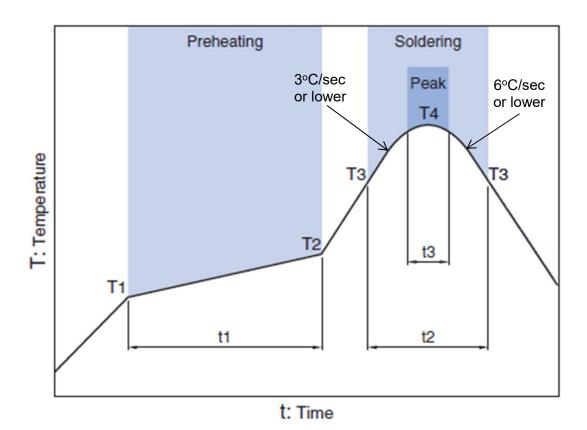
Material, Layer	Thickness
Top Resist	Resist
Copper Surface Pattern	0.035mm
FR-4	0.10mm
Copper Inner GND	0.018mm
FR-4	0.30mm
Copper Bottom GND	0.035mm

ENVIRONMENT INFORMATION

RoHS Statement
RoHS Compliance

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RECOMMENDED REFLOW PROFILE



Soldering **Preheating** Critical zone (T3 to T4) **Peak** Time Time Time Temp. Temp. Temp. <u>t1</u> **T3 t2 T4** t3 * **T1 T2** 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.

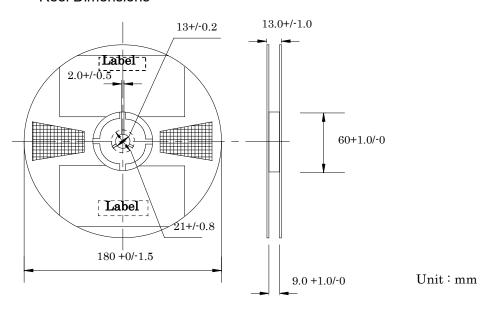
Note: Lead free solder is recommended.

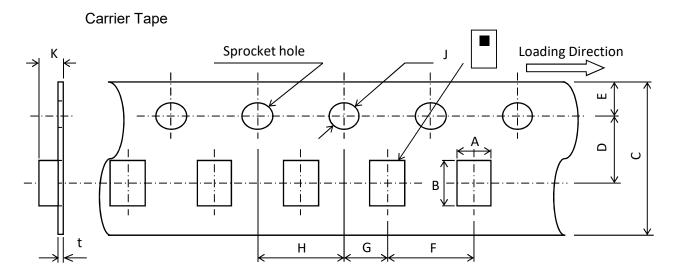
Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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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.