

Multilayer High Pass Filter
For 2400-2500MHz

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

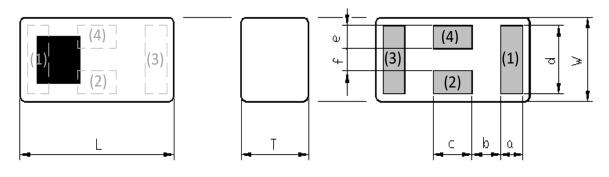
P/N: **DEA162400HT-8053A1** 

# **DEA162400HT-8053A1**

## SHAPES AND DIMENSIONS

[Top View]

[Bottom View]





Dimensions (mm)

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

DC Cut

YES. IN and OUT are isolated at DC.

## TERMINATION FINISH

Material
Au plate



# **DEA162400HT-8053A1**

## ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Freque	nov	/MHz\	TDK Spec		
raiametei	reque	псу	(1411 12)	Min.	Тур.	Max.
Insertion Loss (dB)	2400	to	2500	-	0.47	0.70
Insertion Loss (dB)	2400	to	2500	-	-	0.85
( -40 to +90 °C )						
Return Loss	2400	to	2500	10	18.2	-
Attenuation (dB)	1574	to	1606	30	38.8	-
Characteristic Impedance (ohm)				50	(Nomii	nal)

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

# MAXIMUM RATINGS

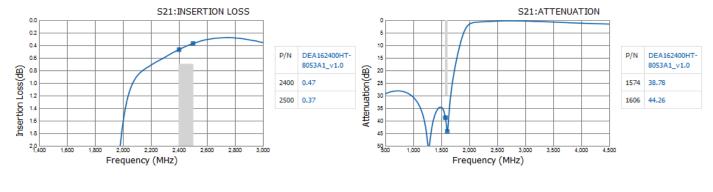
Parameter		TDK Spec	Conditions
Operating temperature (°C)		–40 to +90 °C	
Storage temperature (°C)		–40 to +90 °C	
Human Body Model : HBM	@Each Port (V)	+/-1000	100pF / 1500ohm
Machine Model : MM	@Each Port (V)	+/-150	200pF / 0ohm
Charged Device Model : CDM	@Each Port (V)	+/-500	Humidity: 60%RH max

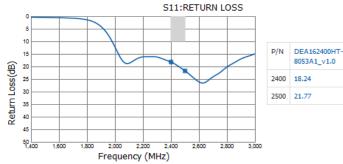
\*1 : Refer to 3GPP TS 38.101-1 V15.2.0

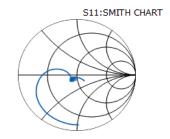


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# ■ FREQUENCY CHARACTERISTICS



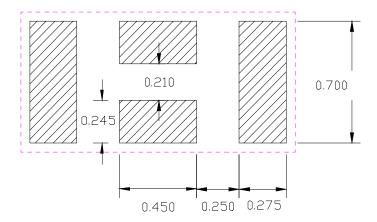




P/N	DEA162400HT 8053A1_v1.0
2400	-0.1 / -0.08
2500	-0.06 / -0.06

## **DEA162400HT-8053A1**

## RECOMMENDED LAND PATTERN



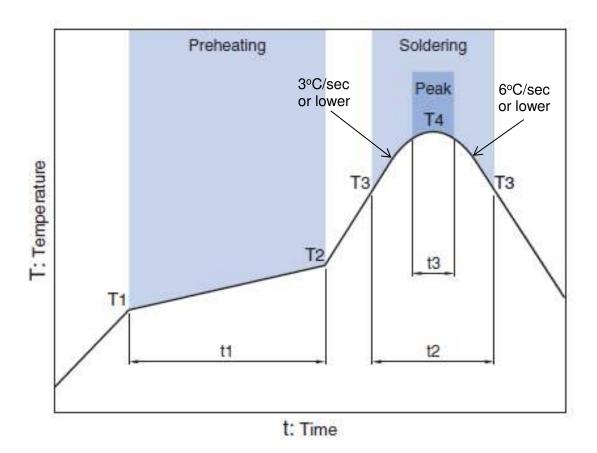
Unit: [mm]

# ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

## **DEA162400HT-8053A1**

### RECOMMENDED REFLOW PROFILE



	Drobe	ating	Soldering					
Preheating		Critical zon	e (T3 to T4)	Peak				
Tei	mp. Time		Temp. Time		Temp.	Time		
T1	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)

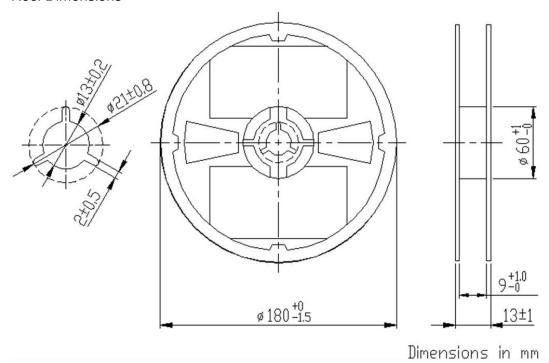
# GENERAL TECHNICAL INFORMATION

https://product.tdk.com/en/system/files?file=dam/doc/product/rf/rf/filter/general\_tech\_info/rf\_general-technical-info\_02\_en.pdf

# **DEA162400HT-8053A1**

## PACKAGING STYLE

#### **Reel Dimensions**



Carrier Tape

Sprocket hole

Loading Direction

G

#### Dimensions (mm)

Α	В	C	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

Н

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 catalog 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 catalog.

- (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.

<sup>•</sup> All specifications are subject to change without notice.

<sup>•</sup> Before using these products, be sure to request the delivery specifications.