



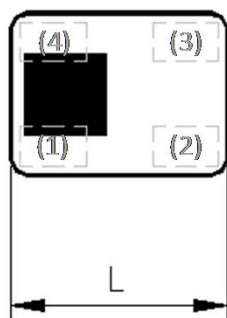
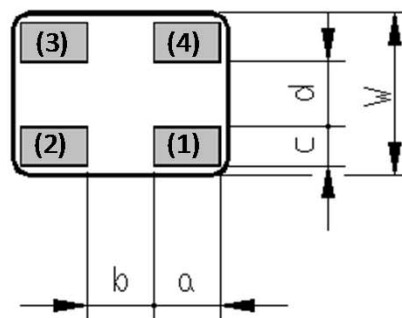
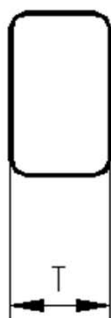
Nov. 2015 Ver.1.0
TDK Corporation

Multilayer High Pass Filter

For 5GHz W-LAN

DEA Series 0.65x0.5mm [EIA 0202] TYPE

P/N: **DEA075150HT-8036A1**

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TDK Corporation**DEA075150HT-8036A1****■ SHAPES AND DIMENSIONS****[Top View]****[Bottom View]**

Dimensions (mm)

L	W	T	a	b	c	d
0.65	0.50	0.25	0.20	0.20	0.115	0.21
+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05

Terminal functions

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

Note:

These samples are marked with trial sample identification.

In mass production, this sample marking will be changed to show in the TDK full specification.

■ TEMPERATURE RANGE

Operating temperature	Storage temperature
-40 to +85 °C	-40 to +85 °C

■ TERMINATION FINISH

Material
Au plate

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TDK Corporation**DEA075150HT-8036A1****■ ELECTRICAL CHARACTERISTICS**

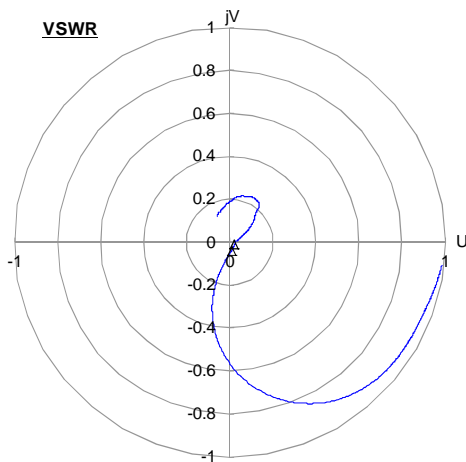
(Measurement)

Parameter	Frequency (MHz)	TDK Spec		
		Min.	Typ.	Max.
Insertion Loss (dB)	5150 to 5850	-	0.17	0.50
Attenuation (dB)	2400 to 2500	15	28	-
Characteristic Impedance (ohm)		50 (Nominal)		

Ta = +25+/-5°C

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TDK Corporation**DEA075150HT-8036A1****FREQUENCY CHARACTERISTICS**

S11 POLA REF 1.0 U SCALE 1.0U FS



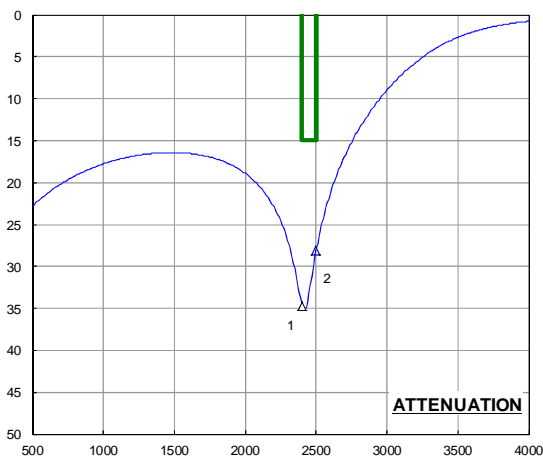
S21 Log MAG REF 0.0dB SCALE 1dB/



MARKER 1	5150 MHz	1.08
MARKER 2	5850 MHz	1.05

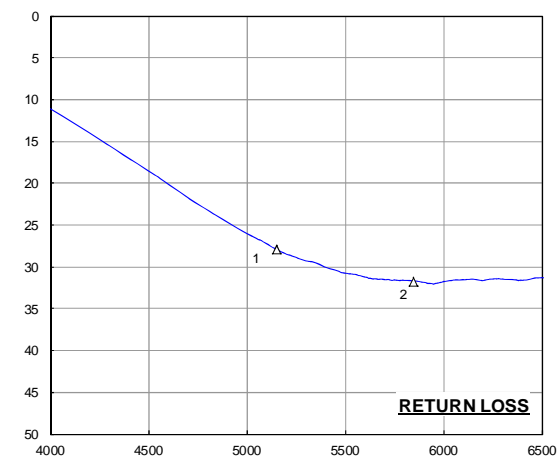
MARKER 1	5150 MHz	0.17 dB
MARKER 2	5850 MHz	0.12 dB

S21 Log MAG REF 0.0dB SCALE 5.0dB/



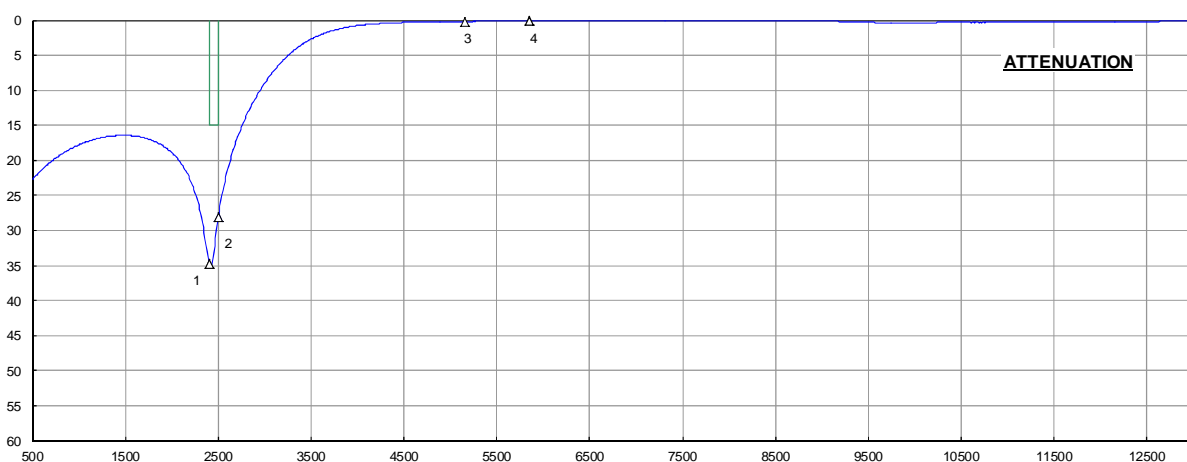
MARKER 1	2400 MHz	34.7 dB
MARKER 2	2500 MHz	28.1 dB

S11 Log MAG REF -10.0dB SCALE 5.0dB/



MARKER 1	5150 MHz	27.9 dB
MARKER 2	5850 MHz	31.7 dB

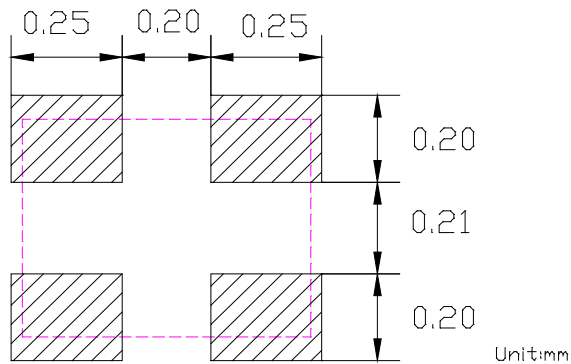
S21 Log MAG REF 0.0dB SCALE 5.0dB/



MARKER 7	2400 MHz	34.7 dB
MARKER 8	2500 MHz	28.1 dB
MARKER 9	5150 MHz	0.17 dB
MARKER 10	5850 MHz	0.12 dB

All specifications are subject to change without notice.

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TDK Corporation**DEA075150HT-8036A1****RECOMMENDED LAND PATTERN****ENVIROMENT INFORMATION**RoHS Statement
RoHS Compliance

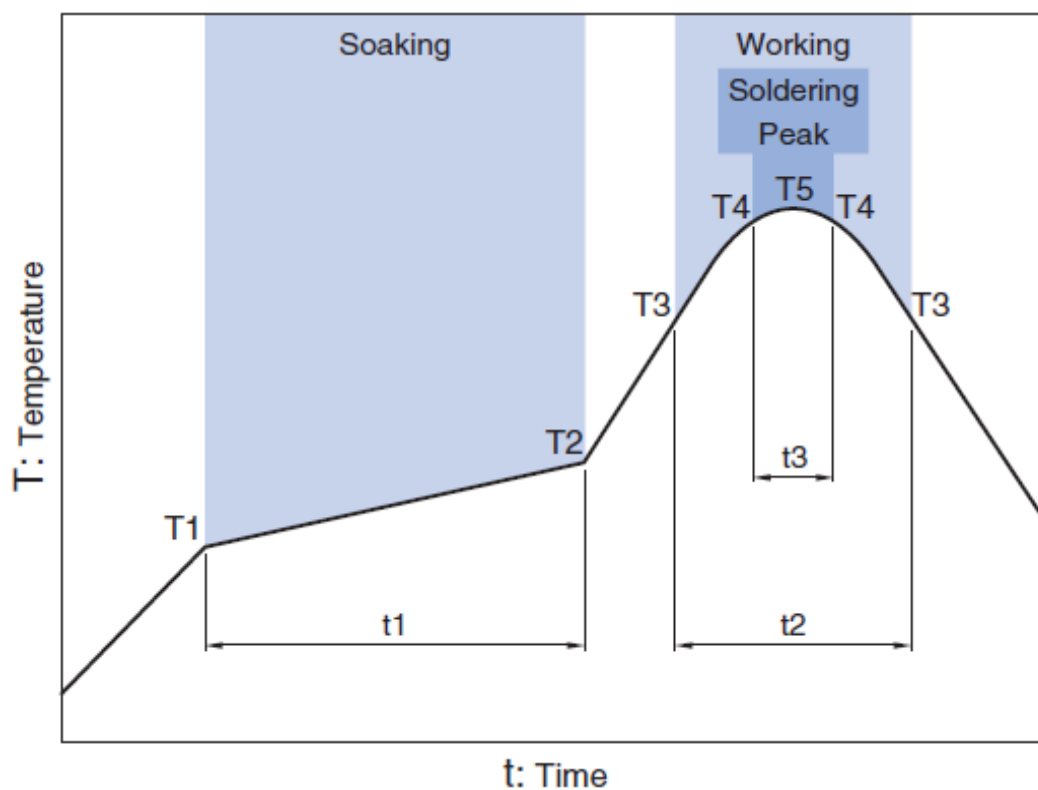
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DEA075150HT-8036A1**RECOMMENDED REFLOW PROFILE**

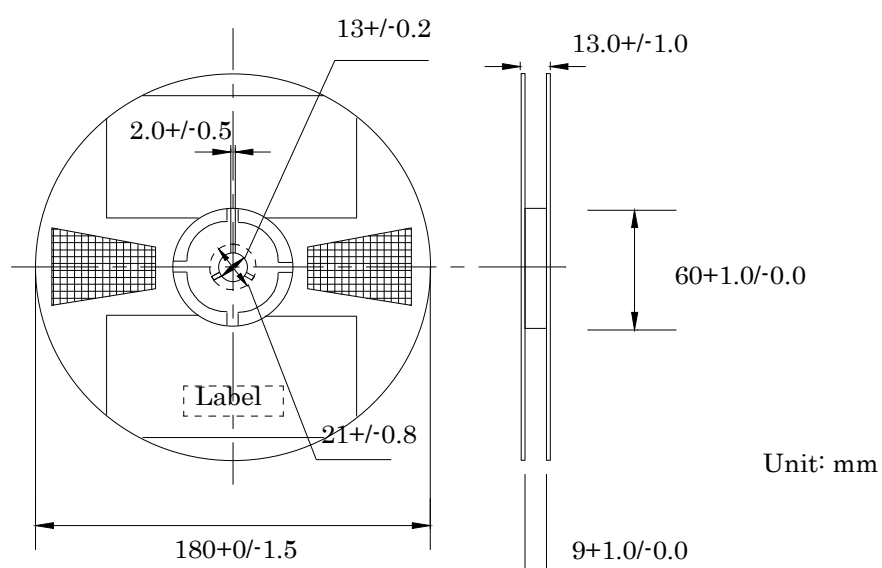
Pb free solder



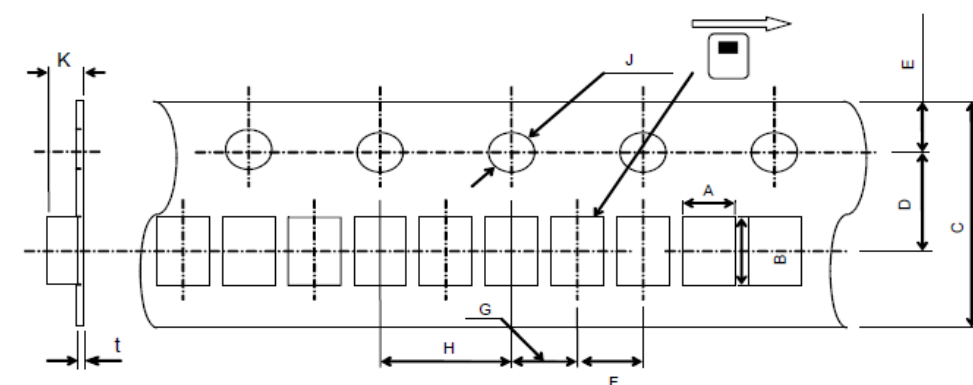
Soaking			Working		Soldering		Peak
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

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TDK Corporation**DEA075150HT-8036A1****■ PACKAGING STYLE**

Reel Dimensions



Carrier Tape



A	B	C	D	E	F
0.6±0.03	0.8±0.03	8.0±0.2	3.5±0.05	1.75±0.01	2.0±0.05
G	H	J	K	t	
2.0±0.05	4.0±0.1	1.5+0.1/-0	0.35±0.03	0.2±0.05	

STANDARD PACKAGE QUANTITY (pieces/reel)
10,000

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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.

Mouser Electronics

Authorized Distributor

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