

Multilayer Low Pass Filter

For 777-787MHz

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

P/N: **DEA070787LT-4002A1**

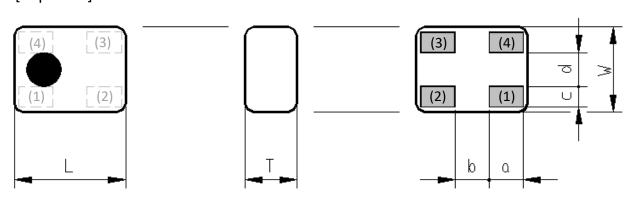


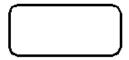
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SHAPES AND DIMENSIONS

[Top View]

[Bottom View]





Dimensions (mm)

L	W	T	а	b	С	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

■ TEMPERATURE RANGE

TERMINATION FINISH

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

Material	
Ag	



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■ ELECTRICAL CHARACTERISTICS

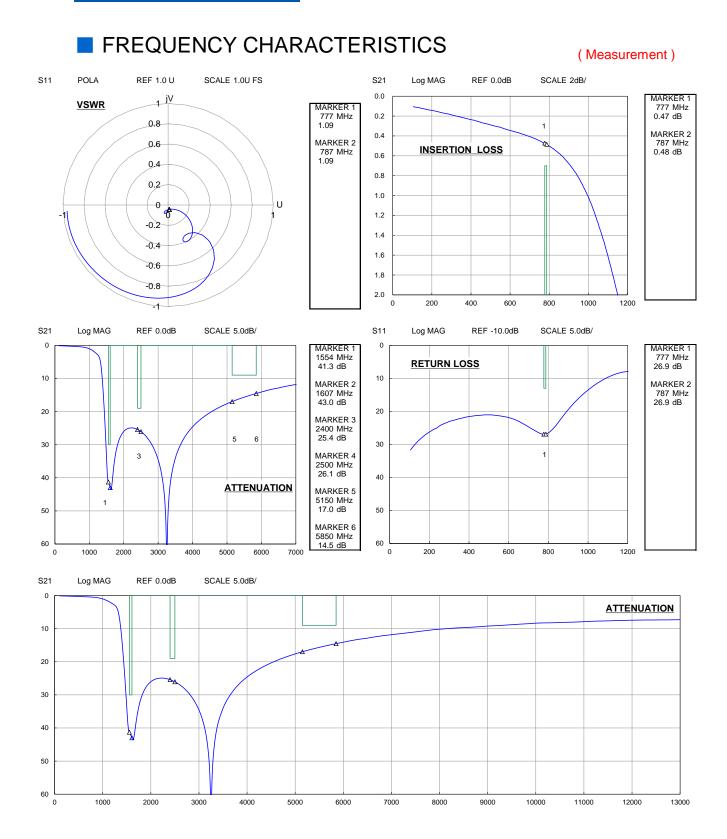
(Measurement)

Parameter	Freque	nev	/MU-/	TDK Spec		
raiailletei	Freque	псу	(IVITIZ)	Min.	Тур.	Max.
Insertion Loss (dB)	777	to	787	-	0.48	0.70
Insertion Loss (dB)	777	to	787	-	-	0.75
(–40 to +85 °C)						
Return Loss (dB)	777	to	787	13	27	
Attenuation (dB)	1554	to	1607	30	41	-
	2400	to	2500	19	25	-
	5150	to	5850	9	15	•
Input Power Rating (W)				-	-	1
Characteristic Impedance (ohm)				50	(Nomir	nal)

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



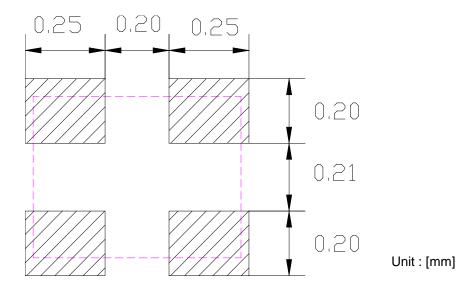
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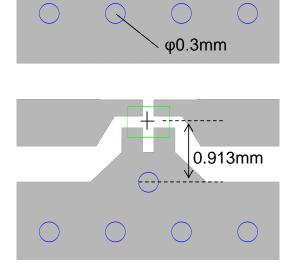


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RECOMMENDED LAND PATTERN



■ EVALUATION BOARD



\bigcirc	Thru Hole
	Resist
	Surface Pattern

Materal & Layer	Thickness
Top Resist	-
Cupper Surface Pattern	0.035mm
FR-4	0.40mm
Cupper Bottom GND	0.035mm

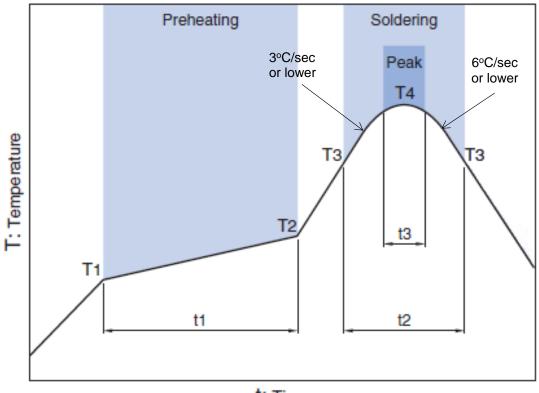
^{*} Line width should be designed to mach 50 ohm characteristic impedance depending on PCB material and thickness.

ENVIROMENT INFORMATION

RoHS Statement
RoHS Compliance

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RECOMMENDED REFLOW PROFILE



t: Time

Preheating			Soldering						
Preneating			Critical zon	e (T3 to T4)	Peak				
Ter	np.	Time	Temp.	Time	Temp.	Time			
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.

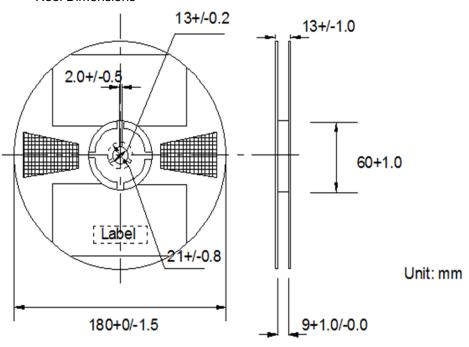
Note: Lead free solder is recommended.

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

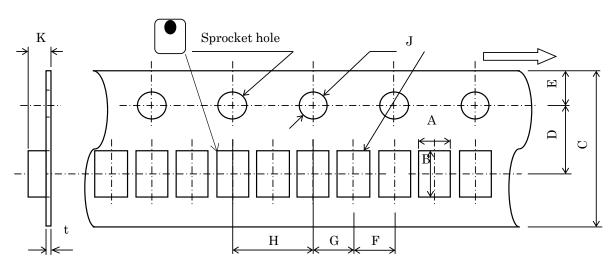
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PACKAGING STYLE

Reel Dimensions



Carrier Tape



Dimensions (mm)

Α	В	С	D	Е	F	G	Н	J	K	t
0.6	0.8	8.0	3.5	1.75	2.0	2.0	4.0	1.5	0.39	0.2
+/-0.03	+/-0.03	+0.3/-0.1	+/-0.05	+/-0.1	+/-0.05	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.06

S	TANDARD 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 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.

[•] All specifications are subject to change without notice.

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