



Aug. 2017 Ver.1.0 TDK Corporation

Multilayer Low Pass Filter

For LTE

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

# P/N: **DEA070960LT-4022A1**

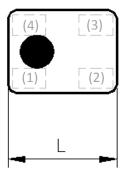
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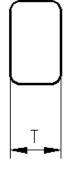
#### DEA070960LT-4022A1

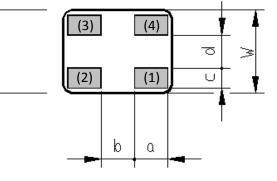
#### SHAPES AND DIMENSIONS

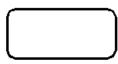
[Top View]

[Bottom View]









#### Dimensions (mm)

Dimon		)				
L	W	Т	а	b	С	d
0.65	0.50	0.30	0.20	0.20	0.115	0.21
+/-0.05	+/-0.05	Max	+/-0.05	+/-0.05	+/-0.05	+/-0.05

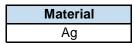
**Terminal functions** 

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

DC Cut

No. IN and OUT are connected, but between IN and GND, or between OUT and GND are not connected.

#### **TERMINATION FINISH**



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# ELECTRICAL CHARACTERISTICS

Frequency (MHz)		TDK Target Spec			
Freque	псу		Min.	Тур.	Max.
617	to	915	-	0.31	0.40
915	to	960	-	0.31	0.40
617	to	915	10	15.6	-
915	to	960	10	16.8	-
1560	to	1610	4	7.1	-
1805	to	1830	15	21.9	-
2110	to	2170	15	21.2	-
2496	to	2547	15	20.3	-
2640	to	2690	15	21.4	-
			50	(Nomir	nal)
	617 915 617 915 1560 1805 2110 2496	617         to           915         to           617         to           915         to           1560         to           1805         to           2110         to           2496         to	915         to         960           617         to         915           915         to         960           1560         to         1610           1805         to         1830           2110         to         2170           2496         to         2547	Frequency (MH2)         Min.           617         to         915         -           915         to         960         -           617         to         915         10           915         to         960         10           915         to         960         10           915         to         960         10           1560         to         1610         4           1805         to         1830         15           2110         to         2170         15           2496         to         2547         15           2640         to         2690         15	Min.         Typ.           617         to         915         -         0.31           915         to         960         -         0.31           915         to         960         -         0.31           617         to         915         10         15.6           915         to         960         10         16.8           1560         to         1610         4         7.1           1805         to         1830         15         21.9           2110         to         2170         15         21.2           2496         to         2547         15         20.3

Ta = +25+/-5°C

#### MAXIMUM RATINGS

Parameter		TDK	Spec	Conditions
Faranieter	Farameter			Conditions
Operating temperature (°C)		-40 to -	+85 °C	
Storage temperature (°C)		-40 to -	⊦85 °C	
Power Handling (W)		-	4	CW Duty 50%
		-		
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 : 60%RH max

All specifications are subject to change without notice. TDK Technology - Proprietary and Confidential Information of TDK Group Companies

Ambient temperature : +25+/-5°C

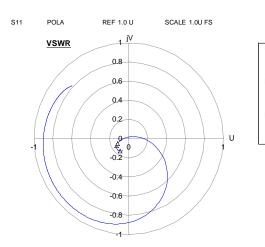
#### ⊗TDK

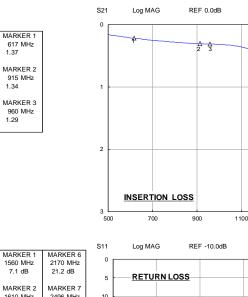
# (Measurement)

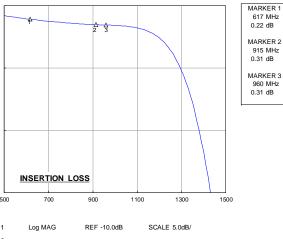
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#### DEA070960LT-4022A1

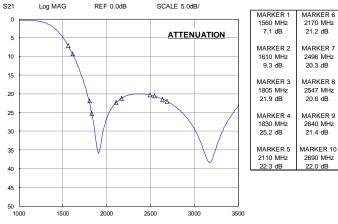
## FREQUENCY CHARACTERISTICS

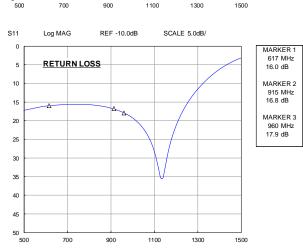






SCALE 1dB/

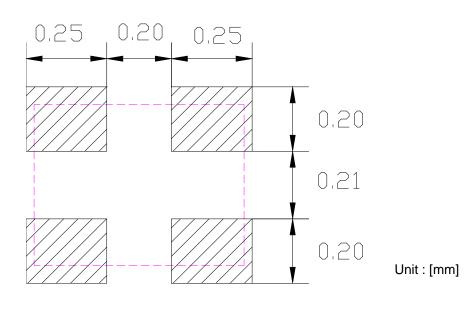




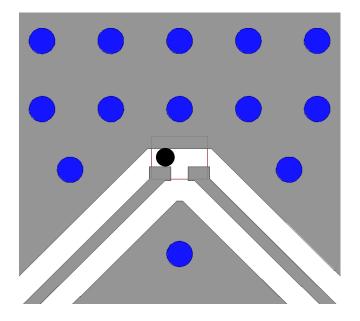
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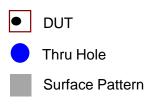
#### DEA070960LT-4022A1

## RECOMMENDED LAND PATTERN



## EVALUATION BOARD





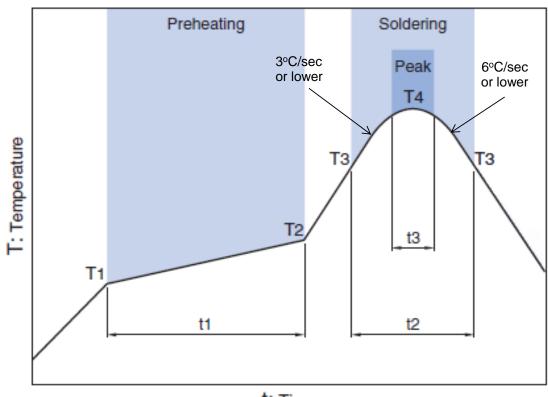
Material & Layer	Thickness
Top Resist	-
Copper Surface Pattern	0.035mm
FR-4	0.10mm
Inner GND	0.018mm
FR-4	0.30mm
Copper Bottom GND	0.035mm

## ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

**TDK** Corporation

## RECOMMENDED REFLOW PROFILE



֥	Time
ι.	Time

	Preheating		Soldering					
	Field	anny	Critical zone (T3 to T4)		Peak			
Tei	mp.	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		

 $^{\ast}$  t3 : Time within 5°C of actual peak temperature The maximum number of reflow is 3.

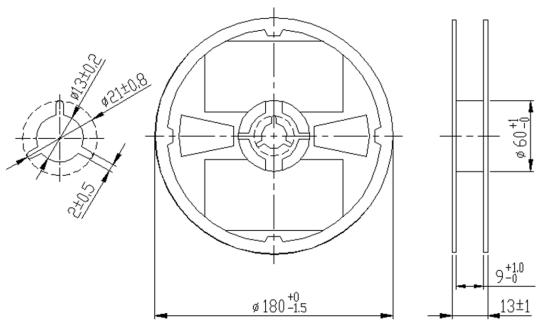
Note: Lead free solder is recommended. Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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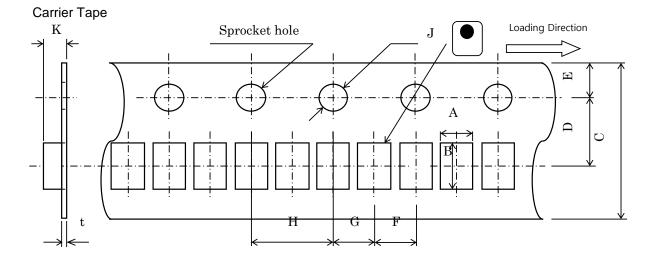
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# PACKAGING STYLE

**Reel Dimensions** 



Dimensions in mm



#### 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

#### STANDARD PACKAGE QUANTITY ( pieces/reel )

( pieces/ree	I)
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 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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 CER0813B

 MAPDCC0005
 3A325
 BD0810N50100AHF
 DC0710J5005AHF
 DC2327J5005AHF
 LFL15869MTC1B787
 X3C19F1-20S

 CDBLB455KCAX39-B0
 RF1353C
 051157-0000
 PD0922J5050D2HF
 600S150FTRB
 1E1305-3
 1F1304-3S
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 XC0900B-30S

 CHE1260-QAG
 11305-10
 5962-9091202MXA
 3A412S
 X3C06A4-03S
 B39000Z3410A4
 DSS-333-PIN
 PD2425J5050S2HF

 B39242B4360P810
 B39781B8005P810
 B39781B8005P810
 B39781B8005P810
 B39781B8005P810