

Jan. 2016 Ver.1.0 TDK Corporation

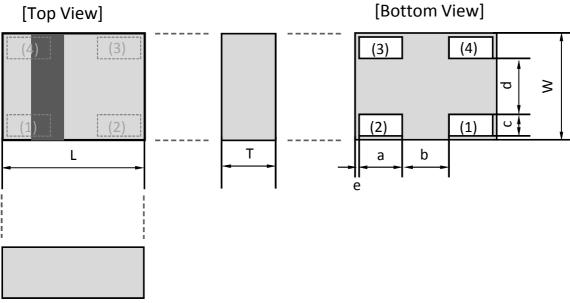
Thin-Film Low Pass Filter For LTE

**TFS Series** 

06505 TYPE

# P/N: TFSL06050915-4108B1X

TFSL06050915-4108B1X



#### Dimensions (mm)

1	W		а	1	C	d	е
0.65	0.50	0.25	0.20	0.20	0.10	0.25	0.025
+/-0.04	+/-0.04	+/-0.05	+/-0.04	+/-0.04	+/-0.04	+/-0.04	+/-0.025

Terminal functions

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

# TEMPERATURE RANGE

<b>Operating temperature</b>	Storage temperature			
–40 to +85 °C	–40 to +85 °C			

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## ELECTRICAL CHARACTERISTICS

Parameter	Eroqua	nov	(MU-)	Specification		
Farameter	Freque	Frequency (MHz)			Тур.	Max.
Insertion Loss (dB)	824	to	915	-	0.26	0.50
Insertion Loss (dB)	824	to	915	-	-	0.60
( −40 to +85 °C )						
Return Loss (dB)	824	to	915	14	23.4	-
Attenuation (dB)	2400	to	2750	20	27.7	-
Power Handling (W)	824	to	915	-	-	3
Characteristic Impedance				50	(Nomi	nal)
(ohm)						
$T_{2} = +25 \pm /-5^{\circ}C$						

Ta = +25+/-5°C

600 700 800 900 1000 1100 1200 1300 1400 1500

ency [MHz]

Freq

SCALE 5.0dB/

REF 0.0dB



0

5

10

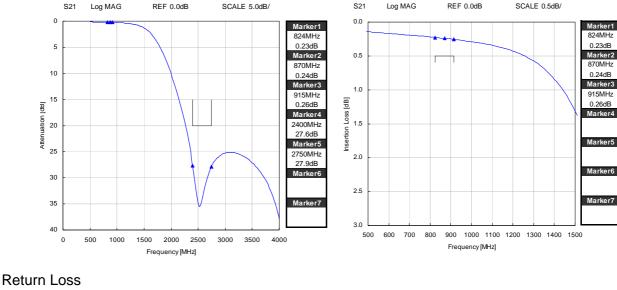
15

30

35

40 500 Log MAG

Attenuation



Marker1 824MHz

23.3dB

Marker2

870MHz

23.7dB Marker3

915MHz

Marker6

Marker7

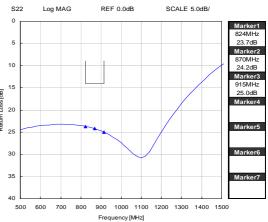
Insertion Loss

# FREQUENCY CHARACTERISTICS

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

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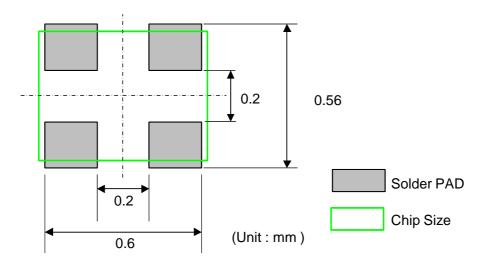
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#### RECOMMENDED LAND PATTERN



#### ENVIROMENT INFORMATION

RoHS Statement RoHS Compliance

Moisture Sensitivity Level (MSL): 1

#### **RF** Components

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#### RECOMMENDED REFLOW PROFILE

In this product, the recommended soldering condition is 'reflow'. The recommended temperature profile is shown in below. Lead Free Reflow Soldering (Sn-3Ag-0.5Cu) Reflow Soldering : Maximum 2 times

Soaking Working Soldering Peak **T6 T5** T5T: Temperature T4 T4 TЗ T3 T2 t4 T1 t3 t1 t2

t: Time

Soaking			Working				
Temp. Time		Time	Temp.		Time		
T1	T2	t1	T3	T4	t2	t3	
150°C	180°C	60 to 120sec	217°C	230°C	60 to 150sec	more than 45sec	

Sold	Peak		
Temp.	Time	Temp.	
T5	t4	T6	
247 to 253°C	within 10sec	260°C Max.	

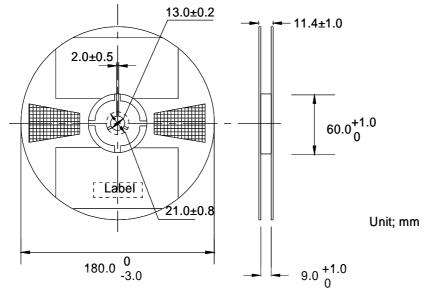


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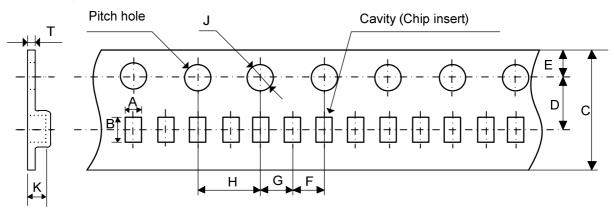
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## PACKAGING STYLE

**Reel Dimensions** 



Carrier Tape



Symbol	A	В	С	D	E	F
Dimension	0.63 ± 0.03	0.81 ± 0.03	8.0 ± 0.2	3.5 ± 0.05	1.75 ± 0.1	2.0 ± 0.05
Symbol	G	Н	J	K	Т	
Dimension	2.0 ± 0.05	4.0 ± 0.1	φ1.5 <sup>+0.1</sup> 0	0.34 ± 0.03	0.20 ± 0.05	(Unit : mm)

#### STANDARD 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.

## 

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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