

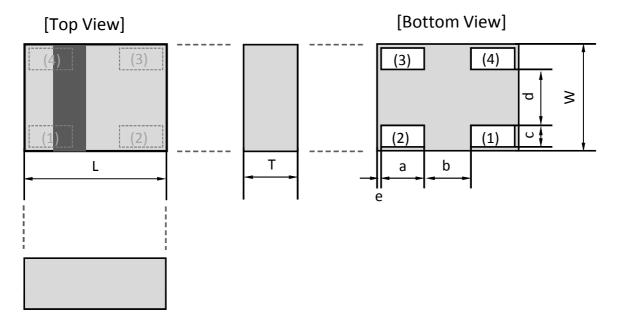
Thin-Film Low Pass Filter
For LTE

TFS Series 06505 TYPE

P/N: TFSL06050915-4108B1X

TFSL06050915-4108B1X

SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	T	а	b	С	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

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

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■ ELECTRICAL CHARACTERISTICS

Parameter	Frequency (MHz)			Specification		
Farameter				Min.	Тур.	Max.
Insertion Loss (dB)	824	to	915	-	0.26	0.50
Insertion Loss (dB)	824	to	915	ı	-	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)						

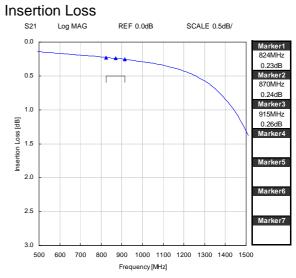
 $Ta = +25 + /-5 ^{\circ}C$



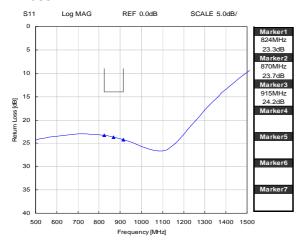
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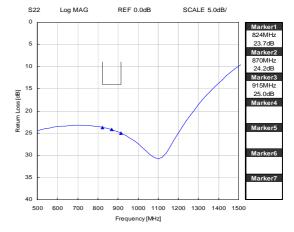
FREQUENCY CHARACTERISTICS

Attenuation Log MAG REF 0.0dB SCALE 5.0dB/ Marker1 824MHz 0.23dB 870MHz 10 0.24dB 915MHz 15 uation [dB] Marker4 20 2400MHz Marker5 25 2750MHz Marker6 30 Marker7 35 40 1000 1500 2000 2500 3500 4000 500 Frequency [MHz]



Return Loss

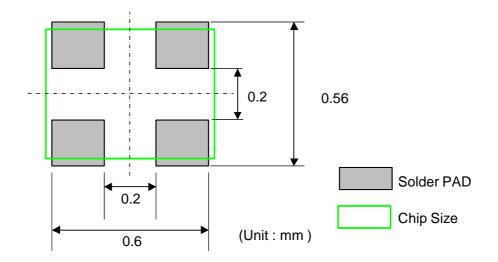






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RECOMMENDED LAND PATTERN



ENVIROMENT INFORMATION

RoHS Statement RoHS Compliance

Moisture Sensitivity Level (MSL): 1

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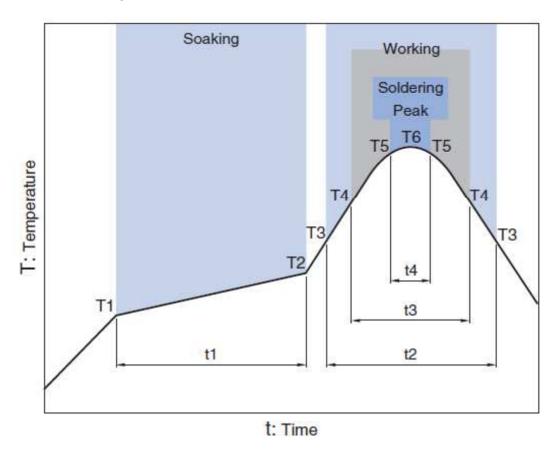
RECOMMENDED REFLOW PROFILE

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



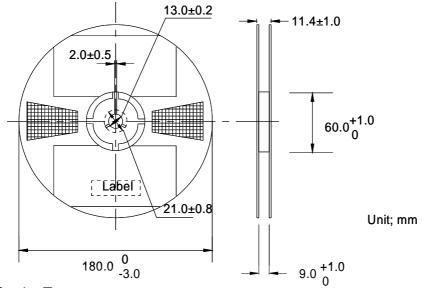
Soaking			Working				
Temp. Time		Time	Temp.		Time		
T1	T2	t1	T3	T4	t2	t3	
150°C	180°C	60 to 120sec	217°C	230°C	60 to 150sec	more than 45sec	

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

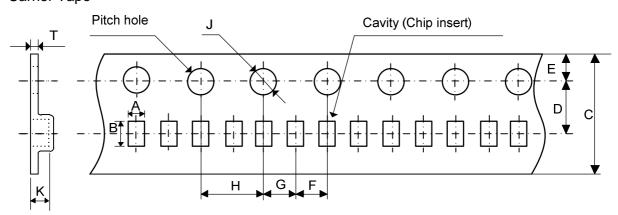
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PACKAGING STYLE

Reel Dimensions



Carrier Tape



Symbol	Α	В	С	D	Е	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	ϕ 1.5 $^{+0.1}_{0}$	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.

↑ 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.