



Sep 2019 Ver.1.0
TDK Corporation

Thin-Film Splitter

For 5150 - 7150 MHz

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

P/N: **TFSC066150-6118A1**

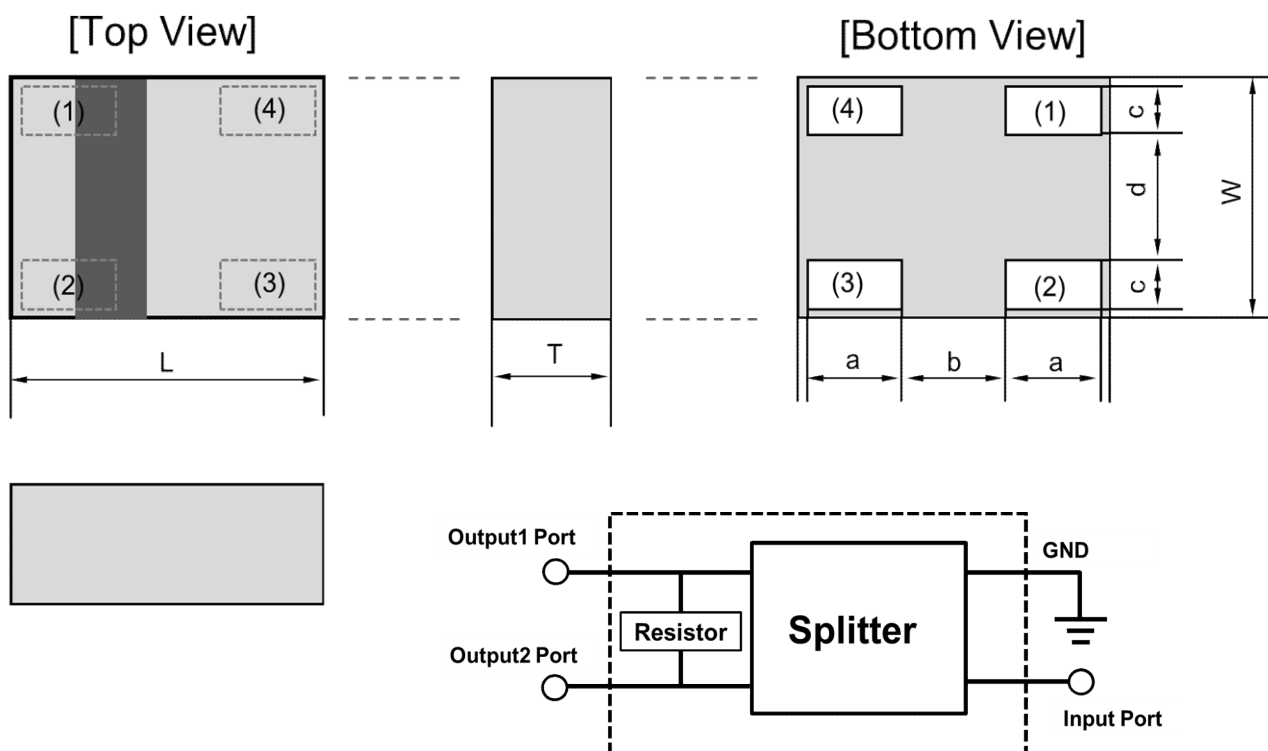
[Features]

- Small Size (0.65mm * 0.5mm)
- Low Profile (0.25mm)
- Low Insertion Loss
- Integrate Resistance

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TFSC066150-6118A1

SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	T	a	b	c	d		
0.65	0.50	0.25	0.20	0.20	0.10	0.25		
+/-0.04	+/-0.04	+/-0.05	+/-0.04	+/-0.04	+/-0.04	+/-0.04		

Terminal functions

(1)	Output1 Port
(2)	Output2 Port
(3)	Input Port
(4)	GND
(5)	

(6)	
(7)	
(8)	
(9)	
(10)	

TFSC066150-6118A1

■ ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Frequency (MHz)	TDK Spec.		
		Min.	Typ.	Max.
Return Loss (dB)	5150 to 7150	10	16.7	-
Isolation (dB)	5150 to 7150	10	15.5	-
Insertion Loss (dB)	5150 to 7150	-	3.45	4.0
Characteristic Impedance (ohm)		50 (Nominal)		

 $T_a = +25 \pm 5^\circ\text{C}$

■ MAXIMUM RATINGS

Parameter	TDK Spec		Conditions
	Min.	Max.	
Operating temperature (°C)	-40 to +85 °C		
Storage temperature (°C)	-40 to +85 °C		
Power Handling (W)	-	3.0	Duty 50%
Human Body Model : HBM @Each Port (V)	-1000	1000	100pF / 1500ohm
Machine Model : MM @Each Port (V)	-100	100	200pF / 0ohm
Charged Device Model : CDM @Each Port (V)	-500	500	Relative humidity : 60%RH max

 Ambient temperature : $+25 \pm 5^\circ\text{C}$

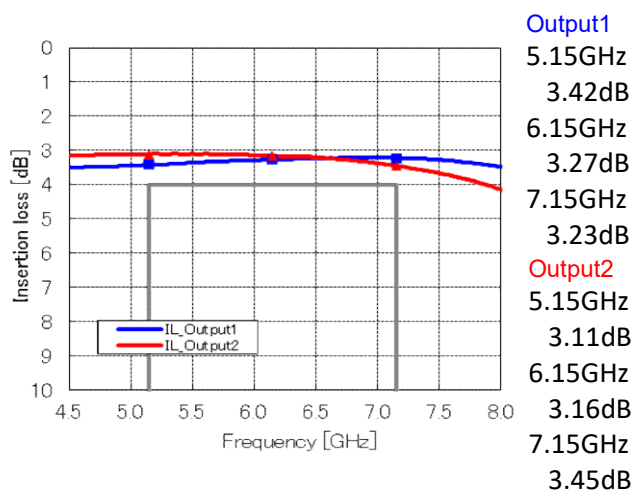
Sep 2019 Ver.1.0
TDK Corporation

TFSC066150-6118A1

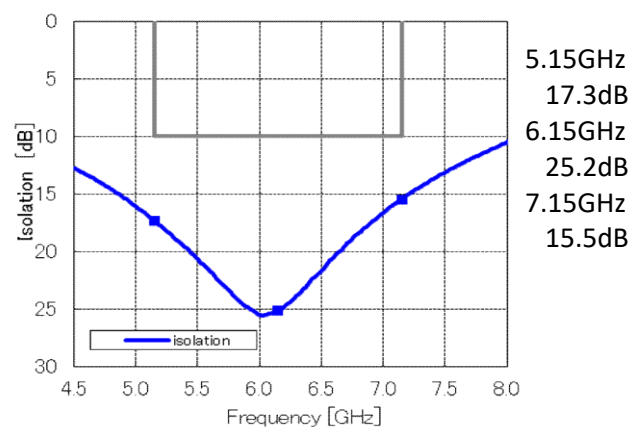
FREQUENCY CHARACTERISTICS

(Measurement)

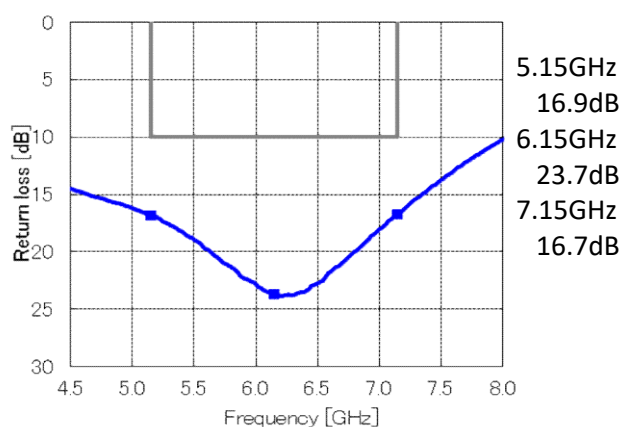
Insertion Loss



Isolation



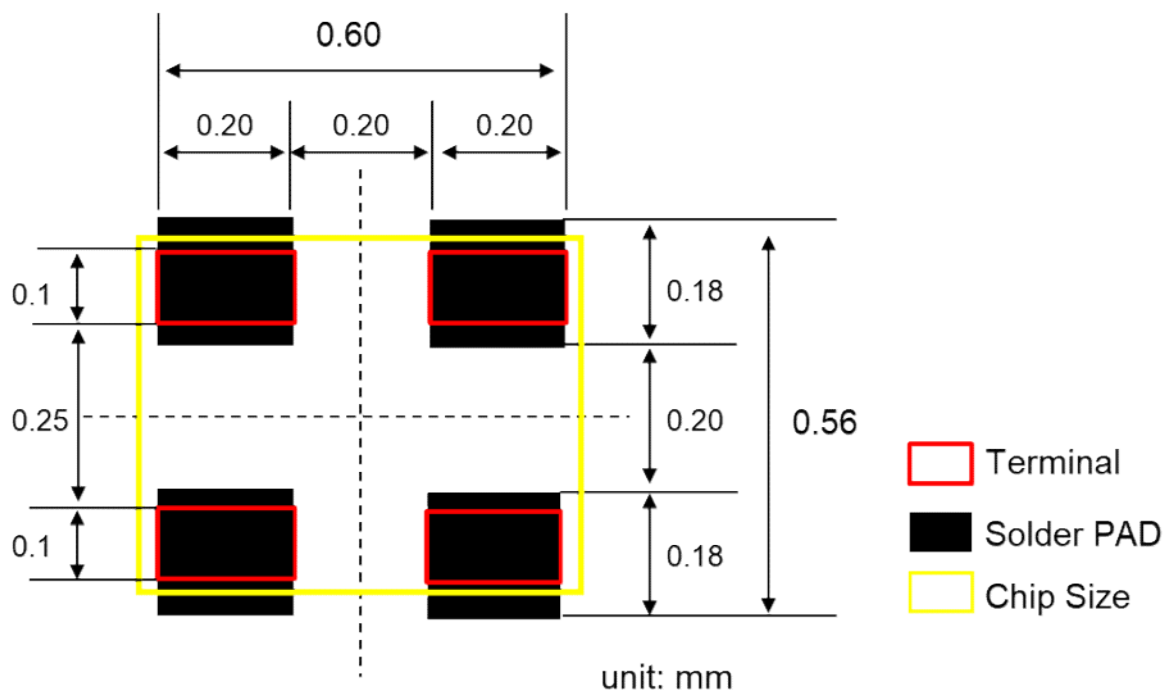
Return Loss



Sep 2019 Ver.1.0
TDK Corporation

TFSC066150-6118A1

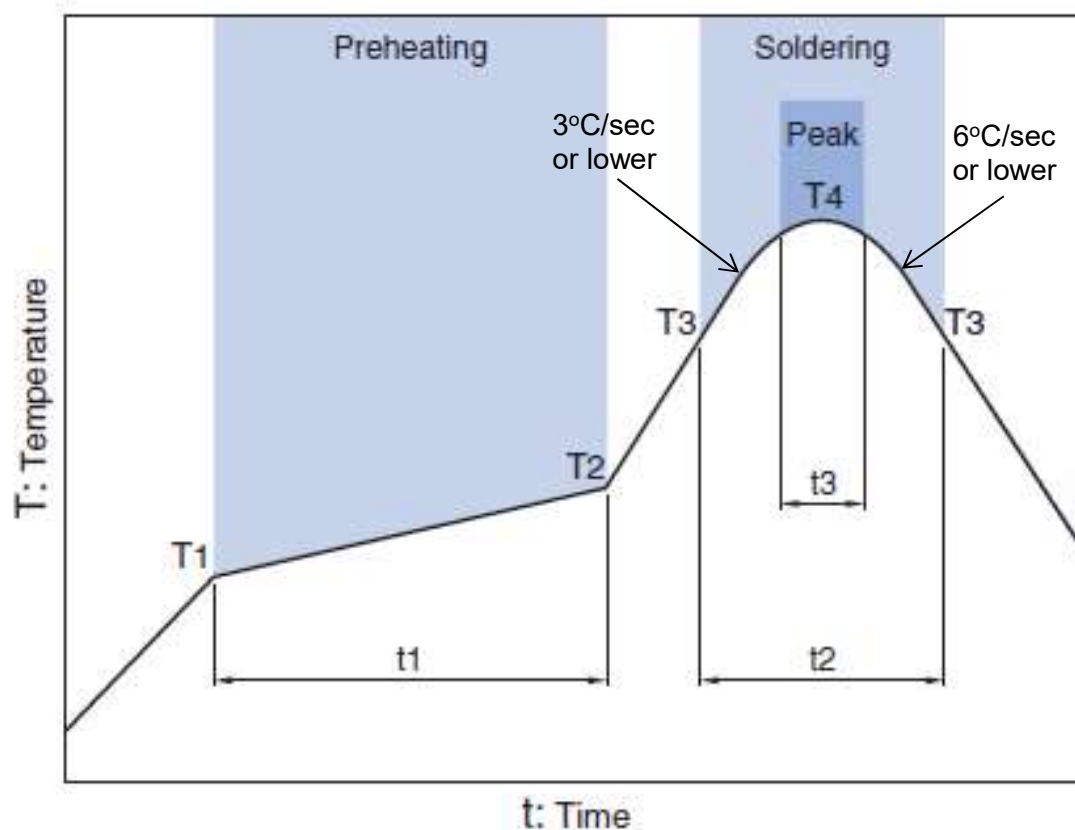
RECOMMENDED LAND PATTERN



ENVIRONMENT INFORMATION

RoHS Statement
RoHS Compliance

Moisture Sensitivity Level (MSL) : 1

TFSC066150-6118A1**RECOMMENDED REFLOW PROFILE**

Preheating			Soldering			
			Critical zone (T3 to T4)		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	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

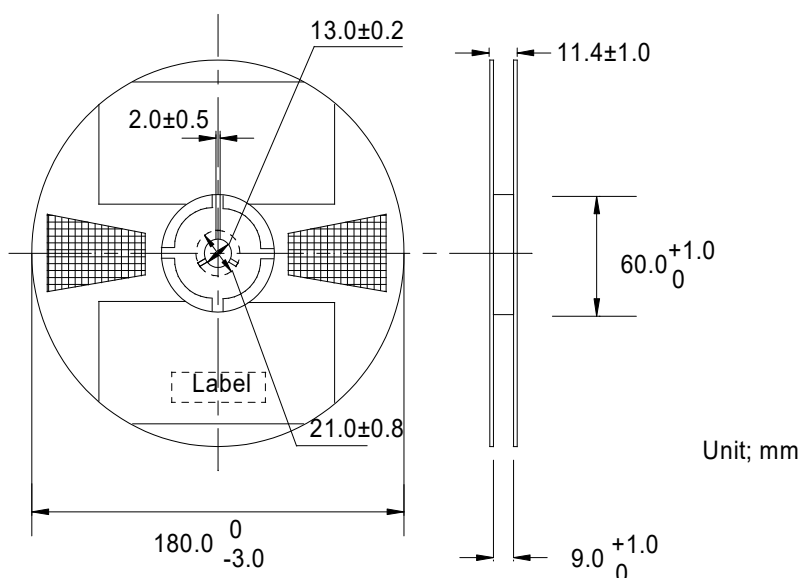
The maximum number of reflow is 3.

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

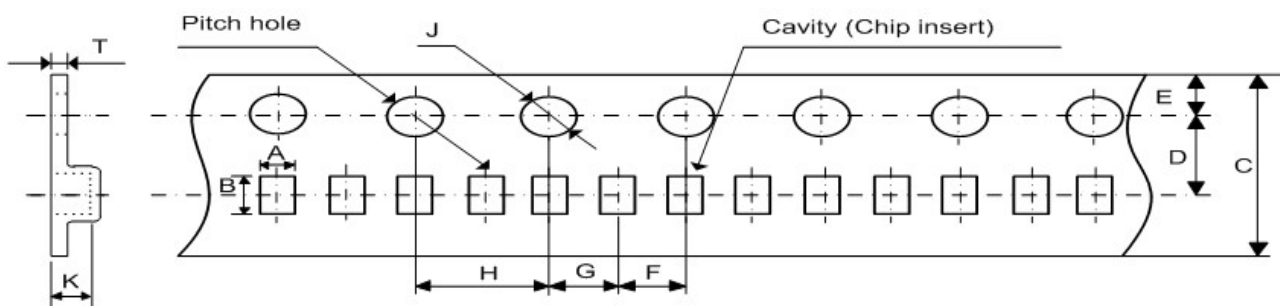
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PACKAGING STYLE

Reel Dimensions



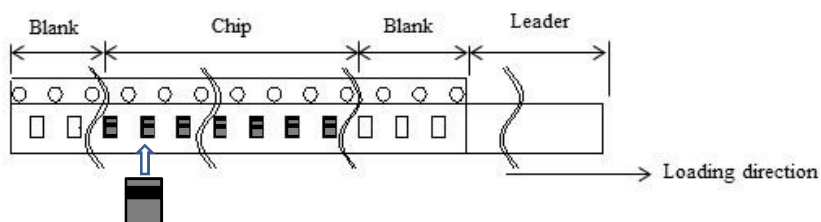
Carrier Tape



Symbol	A	B	C	D	E	F
Dimension	0.60 ± 0.03	0.80 ± 0.03	$8.0 \begin{smallmatrix} +0.3 \\ -0.1 \end{smallmatrix}$	3.5 ± 0.05	1.75 ± 0.1	2.0 ± 0.05

Symbol	G	H	J	K	T
Dimension	2.0 ± 0.05	4.0 ± 0.1	$1.5 \begin{smallmatrix} +0.1 \\ -0 \end{smallmatrix}$	0.34 ± 0.03	0.2 ± 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.

单击下面可查看定价，库存，交付和生命周期等信息

[>>TDK Corporation\(东电化\)](#)