

November 2018

Multilayer Triplexer

For 1559-1606MHz / 2400-2500MHz / 4900-5950MHz

TPX205950MT-7036A1

2.0x1.25mm [EIA 0805]*

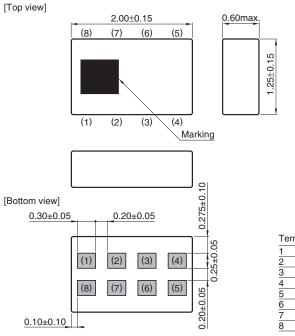
* Dimensions Code JIS[EIA]

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For 1559-1606MHz / 2400-2500MHz / 4900-5950MHz

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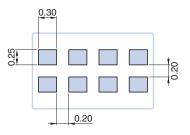
SHAPES AND DIMENSIONS



Те	Terminal functions				
1	GND				
2	Common Port				
3	GND				
4 5 6	Low-Band Port				
5	GND				
	Middle-Band Port				
7	GND				
8	High-Band Port				

Dimensions in mm

RECOMMENDED LAND PATTERN

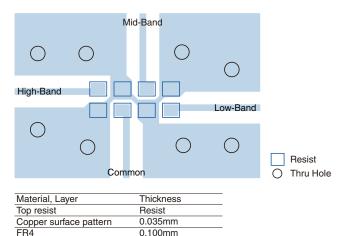


Dimensions in mm

EVALUATION BOARD

Copper inner GND

FR4



 Copper bottom GND
 0.035mm

 Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

0.018mm

0.300mm

O RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

• All specifications are subject to change without notice.

• Before using these products, be sure to request the delivery specifications.

公TDK

ELECTRICAL CHARACTERISTICS

LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Incortion Loop (dB)	1559 to 1606	_	0.58	0.70
Insertion Loss (dB)	1559 to 1606	—	—	0.90 (–40 to +85°C)
Return Loss (dB)	1559 to 1606	10	22	—
Attenuation (dD)	2400 to 2500	19	23	
Attenuation (dB)	4900 to 5950	28	32	
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

MIDDLE-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400 to 2500	—	1.09	1.25
Insertion Loss (dB)	2400 to 2500	—	—	1.45 (–40 to +85°C)
Return Loss (dB)	2400 to 2500	10	16	—
	1560 to 1606	25	28	—
Attenuation (dB)	4800 to 5000	25	29	—
	7200 to 7500	15	25	
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	4900 to 5100		1.03	1.50
Incortion Loop (dP)	5150 to 5950	—	1.14	1.50
Insertion Loss (dB)	4900 to 5100		—	1.70 (-40 to +85°C)
	5150 to 5950		—	1.70 (-40 to +85°C)
Return Loss (dB)	4900 to 5100	10	15	—
Return Loss (dB)	5150 to 5950	9	13	—
	1560 to 1606	25	44	—
	3400 to 3600	30	44	_
	3600 to 3800	30	42	_
Attenuation (dB)	6900 to 7200	10	15	—
	7200 to 7800	13	15	—
	10300 to 11700	21	24	_
	15300 to 16200	15	25	_
Characteristic Impedance (Ω) 50 (Nominal)				

• Ta: +25±5°C

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ELECTRICAL CHARACTERISTICS

Item		Frequency Range (MHz)	Min.	Тур.	Max.	
	Low to Middle	1560 to 1606	25	31	_	
	Low to ivildule	2400 to 2500	19	27	—	
lealation (dD)	Middle to High	2400 to 2500	30	35	—	
Isolation (dB)		4900 to 5950	20	27	—	
	Low to High	1560 to 1606	25	43	—	
		4900 to 5950	28	35	—	
Power Handling (W)			—	_	0.5	
Characteristic Impedance (Ω)				50 (Nominal)		

• Ta: +25±5°C

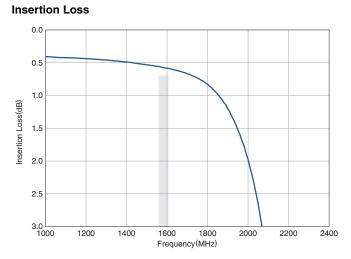
TEMPERATURE RANGE

Operating temperature	Storage temperature
(° C)	(°C)
-40 to +85	-40 to +85

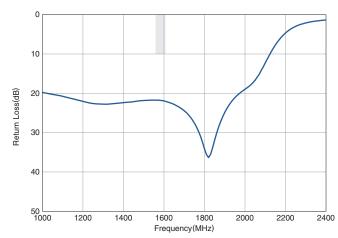
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FREQUENCY CHARACTERISTICS

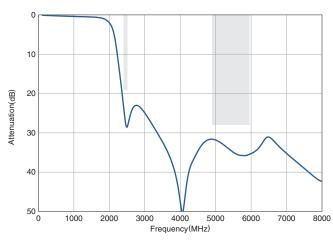


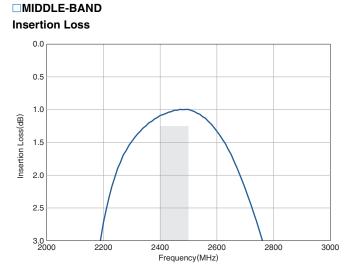


Return Loss

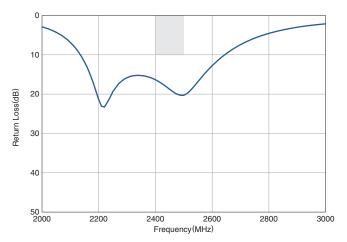




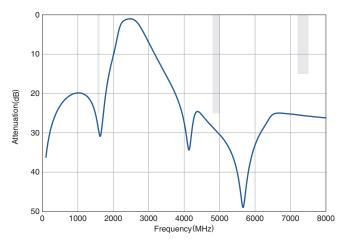




Return Loss



Attenuation

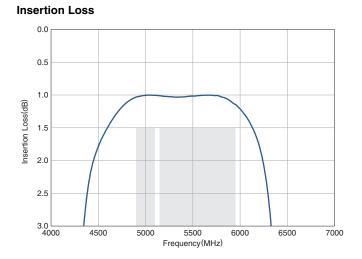


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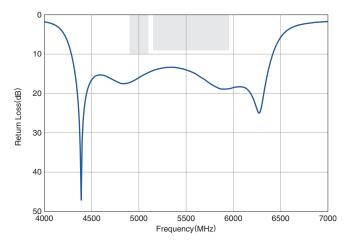
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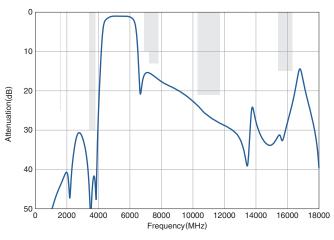
HIGH-BAND



Return Loss



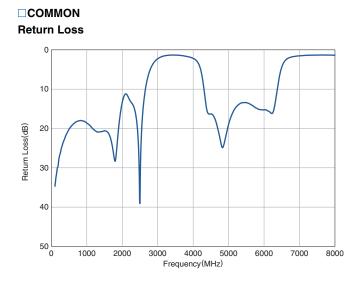
Attenuation



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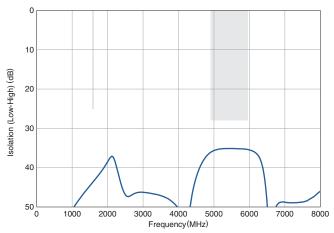
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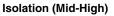
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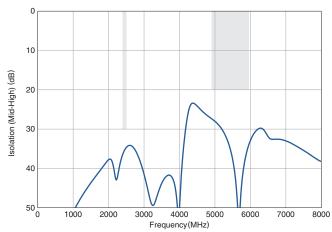


Isolation (Low-Mid) 0 10 Isolation (Low-Mid) (dB) 20 30 40 50 L 5000 8000 1000 2000 3000 4000 6000 7000 Frequency(MHz)





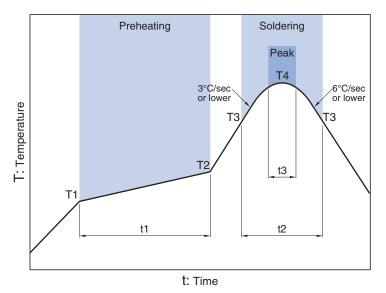




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RECOMMENDED REFLOW PROFILE



Preheating			Soldering Critical zone (T3 to T4) Peak			
Temp.		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	30sec max.

 * t3 : Time within 5°C of actual peak temperature

The maximum number of reflow is 3.

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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.

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