

Multilayer Triplexer

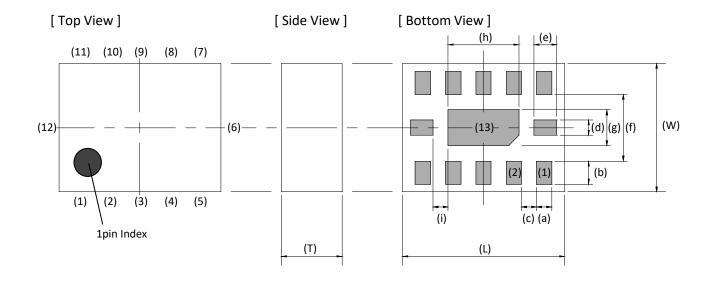
For 698-960MHz / 1710-2170MHz / 2300-2690MHz

DPX Series 3.2x2.5mm [EIA 1210] TYPE

P/N: TPX322690MT-7017C1

TPX322690MT-7017C1

SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	T	а	b	С	d	е	f	g	h	i
3.20	2.50	1.00	0.30	0.45	0.30	0.30	0.45	1.30	0.70	1.40	0.30
+/-0.10	+/-0.10	Max	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.15	+/-0.10

Terminal functions

(1)	Common Port	(6)	GND	(11)	Low-Band Port
(2)	GND	(7)	Mid-Band Port	(12)	GND
(3)	GND	(8)	GND	(13)	GND
(4)	GND	(9)	GND		
(5)	High-Band Port	(10)	GND	Ī	

■ TEMPERATURE RANGE



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

Material
Au plate

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ELECTRICAL CHARACTERISTICS

(Measurement)

Low-Band

Parameter	Frague	nev	TDK Spec				
Parameter	Frequency (MHz)			Min.	Тур.	Max.	
Insertion Loss (dB)		698	to	960	-	0.30	0.70
Insertion Loss (dB)		698	to	960	-	-	0.80
(–40 to +85 °C)							
Isolation (dB)	-Mid	1710	to	2170	25	34	-
	-High	2300	to	2690	25	31	
Return Loss (dB)		698	to	960	18	25	-
Power Capacity(W)		698	to	960	-	-	3

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

Mid-Band

Parameter	Eroguo	nev	/MU-/	TDK Spec			
Faranietei	Freque	Frequency (MHz)			Тур.	Max.	
Insertion Loss (dB)		1710	to	2170	•	1.90	2.40
Insertion Loss (dB)		1710	to	2170	•	-	2.70
(–40 to +85 °C)					-	-	-
Isolation (dB)	-Low	698	to	960	25	27	-
	-High	2300	to	2690	8	14	-
Return Loss (dB)		1710	to	2170	10	15	-
Power Capacity(W)		1710	to	1910	-	-	3
		1910	to	2170	-	-	1

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

High-Band

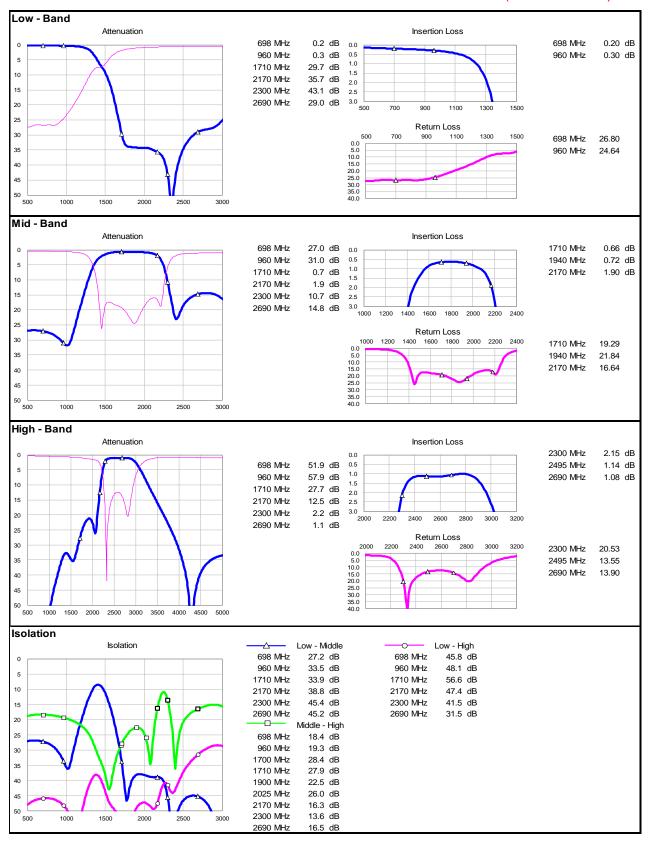
Parameter	Eroguo	nev	/MU-/	TDK Spec			
Faranietei	Frequency (MHz)			Min.	Тур.	Max.	
Insertion Loss (dB)		2300	to	2690	1	2.15	2.80
Insertion Loss (dB)		2300	to	2690	•	-	3.00
(–40 to +85 °C)					•	-	-
Isolation (dB)	-Low	698	to	960	25	46	-
	-Mid	1710	to	2170	13	16	-
Return Loss (dB)		2300	to	2690	8	13	-
Power Capacity(W)		2300	to	2690	-	-	1

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

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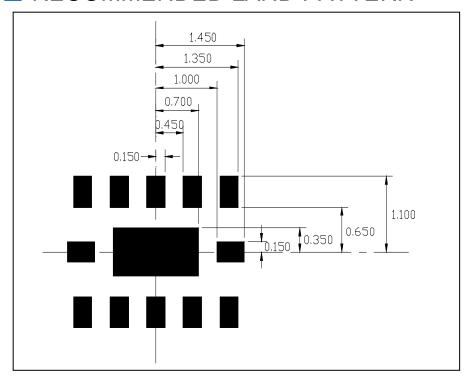
■ FREQUENCY CHARACTERISTICS

(Measurement)



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RECOMMENDED LAND PATTERN

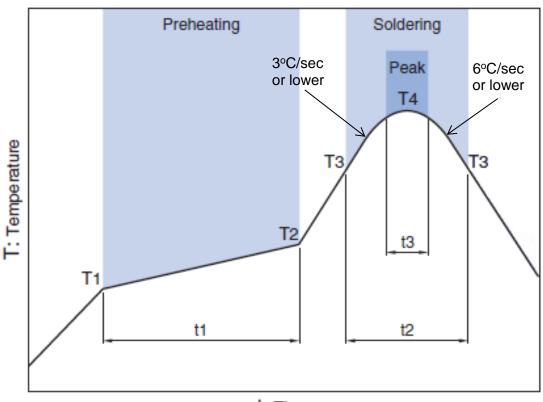


ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

TPX322690MT-7017C1

RECOMMENDED REFLOW PROFILE



t: Time

	Drobe	eating	Soldering					
	FIEII	auriy	Critical zon	e (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		

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

The maximum number of reflow is 3.

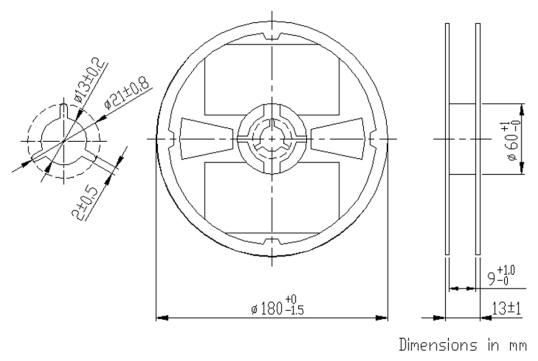
Note: Lead free solder is recommended.

Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

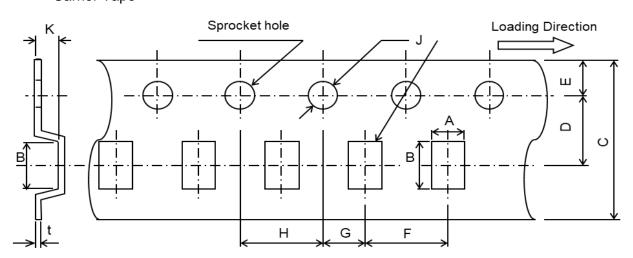
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PACKAGING STYLE

Reel Dimensions



Carrier Tape



Dimensions (mm)

	Α	В	С	D	Е	F	G	Н	J	K	t
Γ	2.7	3.45	8.0	3.5	1.75	4.0	2.0	4.0	1.5	1.45	0.25
	+/-0.05	+/-0.05	+0.3/-0.1	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.05

STANDARD PACKAGE QUANTITY
(pieces/reel)
2,000



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 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.

[•] All specifications are subject to change without notice.

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