

Multilayer Triplexer

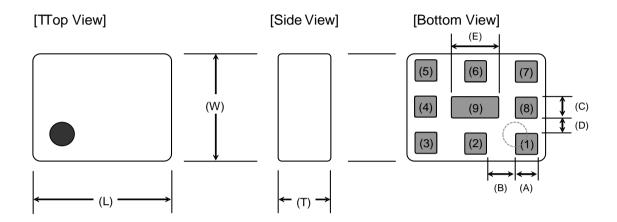
For Band 5+8 / Band 1+3+7 / Band 3GHz~5GHz

TPX Series 2.5x2.0mm [EIA 1008] TYPE

P/N: TPX255925MT-7013A6

TPX255925MT-7013A6

SHAPES AND DIMENSIONS



Dimensions (mm)

		(,					
L	W	Т	Α	В	C	D	Е
2.50	2.00	0.90	0.40	0.55	0.40	0.30	0.90
+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10

Terminal functions

(1)	High-Band Port
(2)	GND
(3)	Middle-Band Port
(4)	GND
(5)	Low-Band Port

(6)	GND
(7)	Common Port
(8)	GND
(9)	GND

TERMINATION FINISH

Material	
Au plate	

TPX255925MT-7013A6

ELECTRICAL CHARACTERISTICS

(Measurement)

Low-Band

Parameter	Eroguo	nov	/N/LI\	TI	OK Sp	ес
Parameter	Freque	псу	(IVITZ)	Min.	Тур.	Max.
Insertion Loss (dB)	450	to	960	•	0.34	0.45
				-		
Insertion Loss (dB)	450	to	960	-	-	0.55
(-40 to +85 °C)				ı		
VSWR (Common Port)	450	to	960	-	1.2	1.7
				•		
VSWR (Low-Band Port)	450	to	960	-	1.16	1.7
				ı		
Attenuation (dB)	1710	to	2690	15	18	-
	3300	to	3400	20	28	-
	3400	to	3800	20	28	-
	3800	to	4200	20	25	-
	4400	to	5000	13	21	-
	5150	to	5925	13	17	-
Characteristic Impedance (ohm)				50	(Nomi	nal)

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

Middle-Band

Parameter Frequency		nev	/MU-/	R	Request		
raiailletei	Freque	псу	(IVITIZ)	Min.	Тур.	Max.	
Insertion Loss (dB)	1710	to	2690	-	0.58	0.75	
				ı			
Insertion Loss (dB)	1710	to	2690	-	-	0.90	
(-40 to +85 °C)				ı			
VSWR (Common Port)	1710	to	2690	ı	1.4	1.7	
				-			
VSWR (Middle-Band Port)	1710	to	2690	-	1.4	1.7	
				ı			
Attenuation (dB)	450	to	960	15	18	-	
	3300	to	3400	10	14	-	
	3400	to	3800	13	16	-	
	3800	to	4200	13	16	-	
	4400	to	5000	13	16	-	
	5150	to	5925	13	17	-	
Characteristic Impedance (ohm)			_	50	(Nomi	nal)	

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

TPX255925MT-7013A6

ELECTRICAL CHARACTERISTICS

(Measurement)

High-Band

Poromotor	Eroguo	Frequency (R	Request	
Parameter	Freque	псу	(IVITZ)	Min.	Тур.	Max.
Insertion Loss (dB)	3300	to	3400	-	1.08	1.35
	3400	to	4200	-	0.73	0.90
	4400	to	5000	-	0.40	0.65
	5150	to	5925	ı	0.34	0.65
Insertion Loss (dB)	3300	to	3400	-	-	1.60
(-40 to +85 °C)	3400	to	4200	•	-	1.10
	4400	to	5000	•	-	0.80
	5150	to	5925	-	-	0.80
VSWR (Common Port)	3300	to	3400	-	1.4	2.0
	3400	to	4200	·	1.4	2.0
	4400	to	5000	-	1.2	2.0
	5150	to	5925	-	1.2	2.0
VSWR (High-Band Port)	3300	to	3400	ı	1.4	2.0
	3400	to	4200	-	1.3	2.0
	4400	to	5000	-	1.2	2.0
	5150	to	5925	ı	1.2	2.0
Attenuation (dB)	450	to	960	17	21	-
	1710	to	2690	15	18	-
Characteristic Impedance (ohm)				50	(Nomi	nal)

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

Common

Doromoi	Parameter		no.	/N/ILI=\	F	Reques	st
Parame	ter	Freque	псу	(IVITZ)	Min.	Тур.	Max.
Isolation (dB)	LB - MB	450	to	960	15	19	-
		1710	to	2690	15	18	-
	LB - HB	450	to	703	20	24	-
		703	to	803	20	23	-
		803	to	960	17	21	-
		3300	to	4200	20	24	-
		4400	to	5000	13	19	-
		5150	to	5925	13	16	-
	MB - HB	1710	to	2690	15	18	-
		3300	to	3400	10	20	-
		3400	to	3800	13	17	-
		3800	to	4200	13	17	-
		4400	to	5000	13	17	-
		5150	to	5925	13	18	-
Characteristic Impe				50	(Nomi	nal)	

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



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MAXIMUM RATINGS

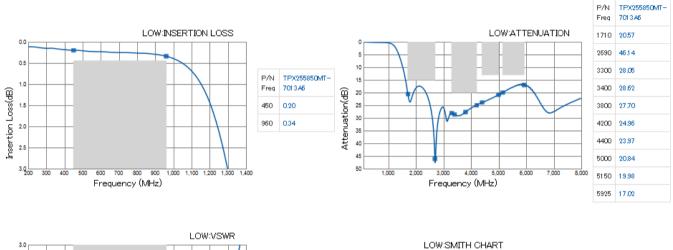
	Parameter					Conditions
Operating to				–40 to +85 °C		
Storage tem	nperature (°C)				–40 to +85 °C	
Power Hand	Power Handling (W) *1			(MHz)		
	Low-Band		to	960	4	Duty 50%
	Middle-Band	1710	to	2690	2	Duty 50%
	High-Band	3300	to	5925	1	CW
Human Body Model : HBM		@Each Port (V)		+/-1000	100pF / 1500ohm	
Machine Mo	@Each Port (V)		+/-150	200pF / 0ohm		
Charged De	vice Model : CDM	@Ea	ch P	ort (V)	+/-500	Humidity : 60%RH max

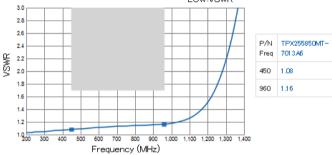
*1 : Refer to 3GPP TS 38.101-1 V15.2.0

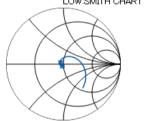


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■ FREQUENCY CHARACTERISTICS





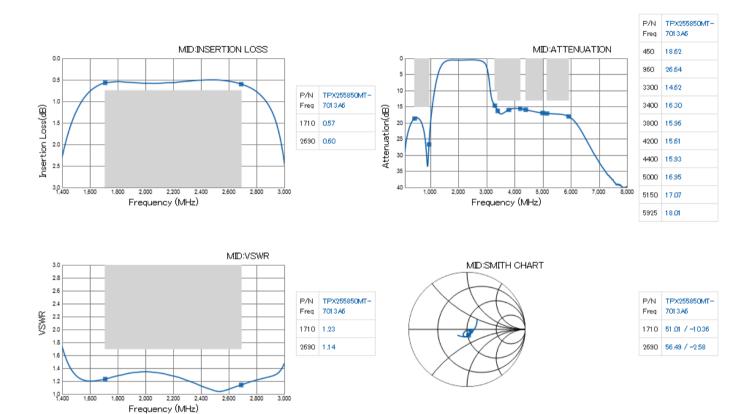


P/N Freq	TPX255850MT- 7013A6
450	47.24 / -2.55
960	43.82 / 3.41



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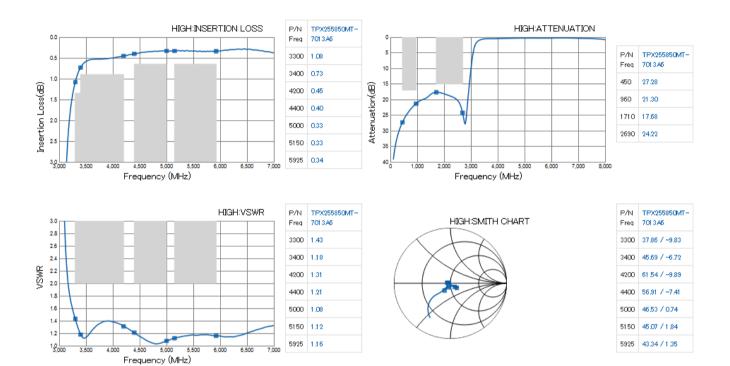
■ FREQUENCY CHARACTERISTICS





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■ FREQUENCY CHARACTERISTICS



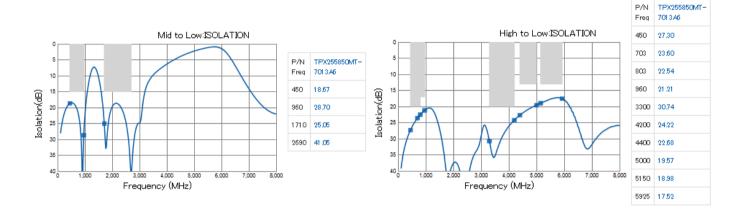


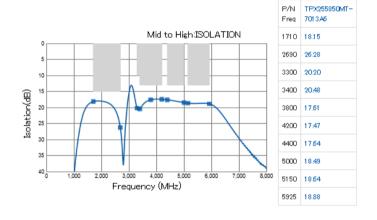
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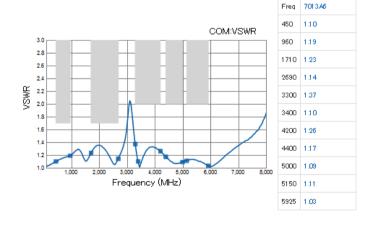
■ FREQUENCY CHARACTERISTICS

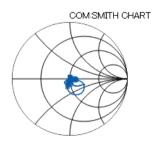
P/N

TPX255850MT-







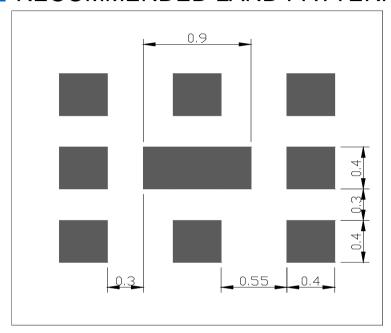


	TPX255850MT- 7013A6
450	48.58 / -4.36
960	45.56 / -7.13
1710	48.67 / -10.15
2690	57.05 / -1.35
3300	43.06 / -12.74
3400	46.82 / -3.21
4200	62.71 / -1.4
4400	58.7 / -0.71
5000	49.73 / 4.44
5150	49.11 / 5.29
5925	50.08 / 1.53



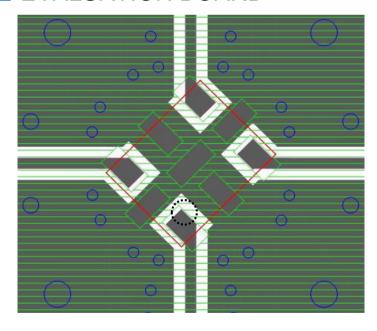
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RECOMMENDED LAND PATTERN



Unit: mm

EVALUATION BOARD



\bigcirc	Thru Hole
	Resist
	Surface

DUT
Direction Mark

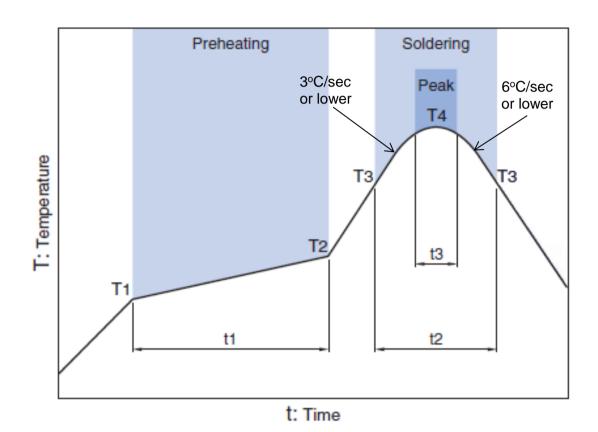
Material, Layer	Thickness		
Top Resist	Resist		
Copper Surface Pattern	0.035mm		
FR-4	0.10mm		
Copper Inner GND	0.018mm		
FR-4	0.30mm		
Copper Bottom GND	0.035mm		

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

TPX255925MT-7013A6

RECOMMENDED REFLOW PROFILE



Drobooting			Soldering				
Preheating			Critical zon	e (T3 to T4)	Peak		
Tei	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.

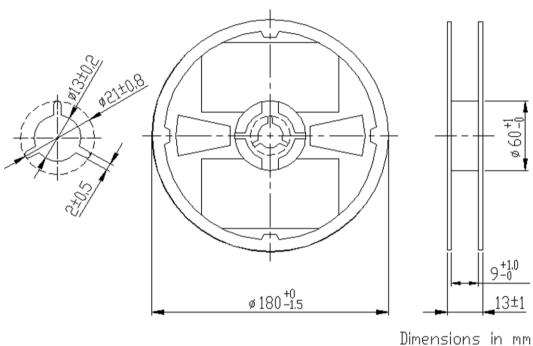
Note: Lead free solder is recommended.

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

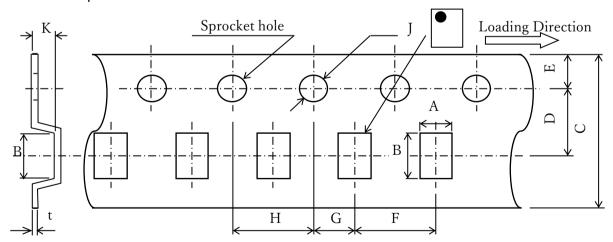
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PACKAGING STYLE

Reel Dimensions



Carrier Tape



Dimensions (mm)

Α	В	С	D	Е	F	G	Н	J	K	t
2.2	2.7	8.0	3.5	1.75	4.0	2.0	4.0	1.5	1.15	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 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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C4532NP01H154J250KA CD75-B2GA331KYGKA CLF10040T-221M CLF12555T-220M R22095*REPAIRED MLF1005LR12K
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CGA9M1X7T2J334K CGA8P3X7T2E105M/SOFT CGA6J4C0G2J392J CGA6M3X7R2E154K CGA3E3C0G2E181J CGA2B2C0G1H331J
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