

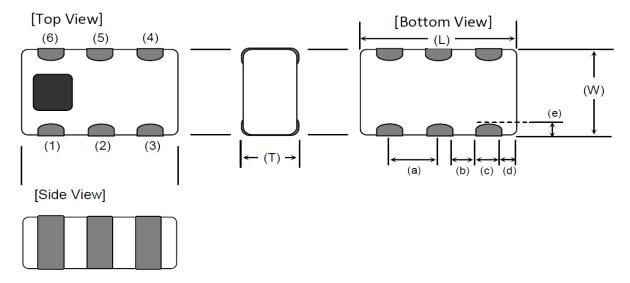
Multilayer Diplexer
For LTE

DPX Series 2.0x1.25mm [EIA 0805] TYPE

P/N: **DPX201880DT-4061A2**

DPX201880DT-4061A2

SHAPES AND DIMENSIONS



Dimensions (mm)

		(
Г	W	T	а	b	С	d	е
2.00	1.25	0.90	0.65	0.35	0.30	0.20	0.20
+/-0.15	+/-0.15	+/-0.10	+/-0.15	+/-0.15	+/-0.15	+/-0.15	+/-0.15

Terminal functions

(1)	GND					
(2)	Common Port					
(3)	GND					

(4)	High-Band Port
(5)	GND
(6)	Low-Band Port

TERMINATION FINISH

Material
Sn plate

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ELECTRICAL CHARACTERISTICS

(Measurement)

Low-Band

Parameter	Freque	nov	/MU-)	TI	OK Sp	ес
Farameter	Freque	псу	(IVIITZ)	Min.	Тур.	Max.
Insertion Loss (dB)	698	to	960	-	0.63	0.85
	960	to	1447	-	0.71	0.85
	1447	to	1511	1	0.98	1.60
VSWR (Low-Band Port)	698	to	960	-	1.12	1.92
	960	to	1447	-	1.21	1.92
	1447	to	1511	ı	1.21	1.92
Attenuation (dB)	1710	to	1880	10	15.0	-
	1880	to	2170	10	15.0	
	2170	to	2700	10	15.0	-
Characteristic Impedance (ohm)				50	(Nomi	nal)

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

High-Band

Parameter	Freque	ncv	(MH2)	T	OK Sp	ес
raiailletei	reque	псу	(1411 12)	Min.	Тур.	Max.
Insertion Loss (dB)	1710	to	1880	-	1.02	1.60
	1880	to	2170	-	0.29	1.00
	2170	to	2700	ı	0.52	1.00
VSWR (High-Band Port)	1710	to	1880	-	1.35	1.92
	1880	to	2170	ı	1.40	1.92
	2170	to	2700	-	1,86	2.32
Attenuation (dB)	698	to	960	7	9.0	ı
	960	to	1447	7	9.0	-
	1447	to	1511	10	15.0	-
Characteristic Impedance (ohm)		•		50	(Nomii	nal)

Ta = +25 + /-5°C



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MAXIMUM RATINGS

(Measurement)

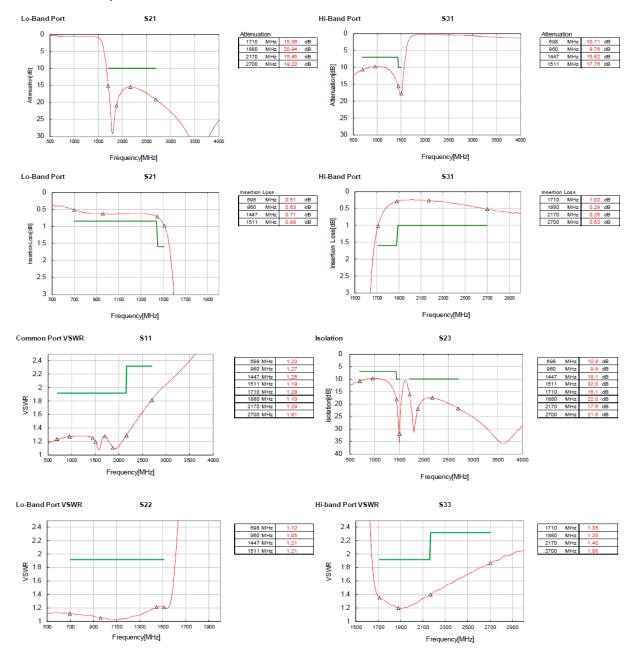
	Parameter	TDK Spec	Conditions			
Operating te				–40 to +85 °C		
Storage tem	perature (°C)				–40 to +85 °C	
Power Handling (W) *1		Freque	ncy	(MHz)		
	Low-Band		to	1511	1	CW
	High-Band	1710	to	2700	1	CW
Human Body Model: HBM		@Each Port (V)		+/-1000	100pF / 1500ohm	
Machine Model : MM		@Each Port (V)		+/-150	200pF / 0ohm	
Charged De	@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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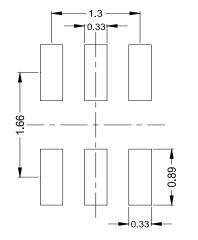
FREQUENCY CHARACTERISTICS





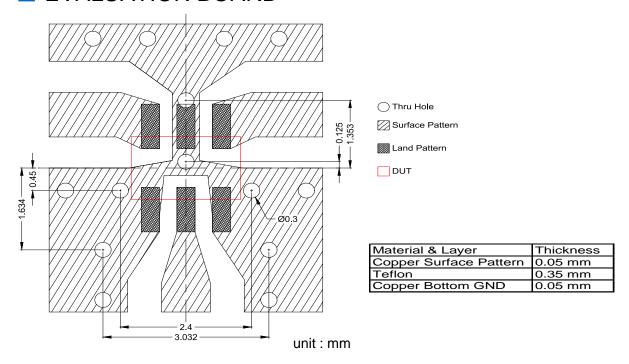
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RECOMMENDED LAND PATTERN



unit: mm

EVALUATION BOARD



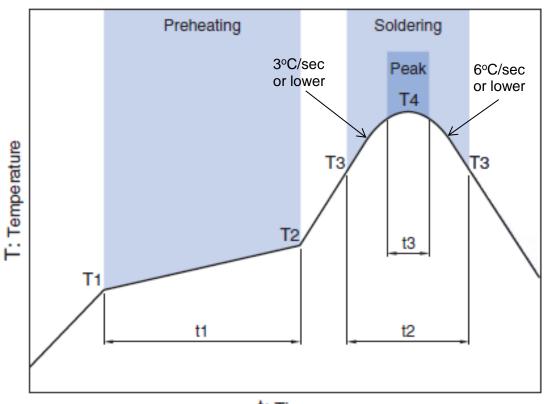
- * Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.
- ** The position of the throuh hole which have possibility of influence to the prerformance are indicated by dimension line.

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



t: Time

	Drobe	ating	Soldering					
Preheating			Critical zon	e (T3 to T4)	Peak			
Tei	Temp. Time		Temp.	Time	Temp.	Time		
T1	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.

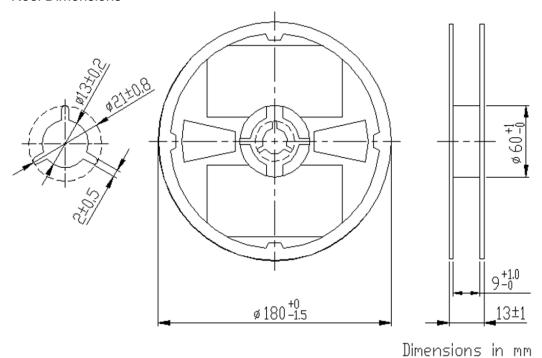
Note: Lead free solder is recommended.

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

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PACKAGING STYLE

Reel Dimensions



Dimensions (mm)

Α	В	С	D	Е	F	G	Н	J	K	t
1.45	2.2	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.