

Multilayer Diplexer

For 698-1511MHz / 1710-2700MHz

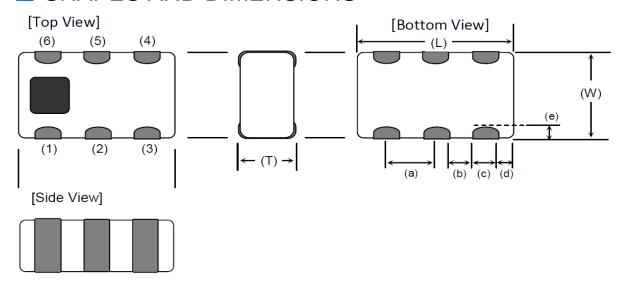
DPX Series 2.0x1.25mm [EIA 0805] TYPE

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



DPX201880DT-4061A2

SHAPES AND DIMENSIONS



Dimensions (mm)

L	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	nev	/MU-)	TI	OK Sp	ес
Farameter	Freque	псу	(IVITIZ)	Min.	Тур.	Max.
Insertion Loss (dB)	698	to	960	-	0.63	0.85
	960	to	1447	-	0.71	0.85
	1447	to	1511	•	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	•	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	(Nomii	nal)

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

High-Band

Parameter	Freque	ncv	(MH-)	TI	OK Sp	ес
raiailletei	reque	псу	(1411 12)	Min.	Тур.	Max.
Insertion Loss (dB)	1710	to	1880	-	1.02	1.60
	1880	to	2170	ı	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	-
	960	to	1447	7	9.0	-
	1447	to	1511	10	15.0	-
Characteristic Impedance (ohm)				50	(Nomi	nal)

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



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MAXIMUM RATINGS

(Measurement)

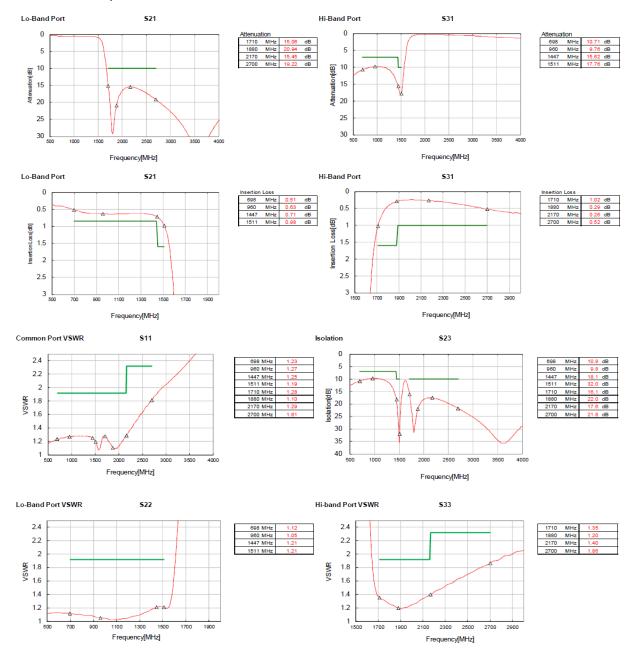
	Parameter	TDK Spec	Conditions			
Operating to				–40 to +85 °C		
Storage tem	Storage temperature (°C)				–40 to +85 °C	
Power Handling (W) *1		Freque	ncy	(MHz)		
	Low-Band	698	to	1511	1	CW
	High-Band	1710	to	2700	1	CW
Human Body Model: HBM		@Each Port (V)		+/-1000	100pF / 1500ohm	
Machine Model : MM		@Each Port (V)		+/-150	200pF / 0ohm	
Charged Device Model : CDM		@Each Port (V)		+/-500	Humidity: 60%RH max	

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



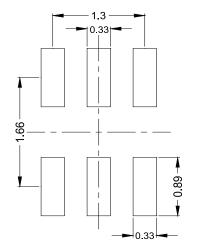
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FREQUENCY CHARACTERISTICS



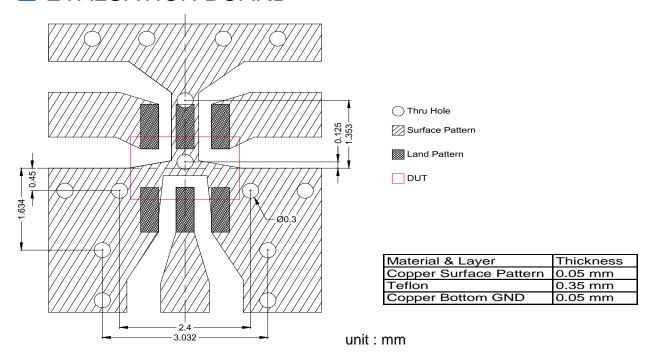
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RECOMMENDED LAND PATTERN



unit: mm

EVALUATION BOARD



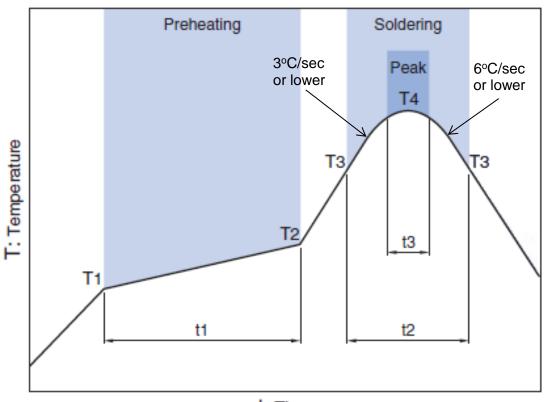
- * Line width should be designed to match 50 ohm characteristic impedance depending on PCB material and thickness.
- ** The position of the throuh hole which have possibility of influence to the prerformance are indicated by dimension line.

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE



t: Time

	Drobe	acting	Soldering					
Preheating			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.

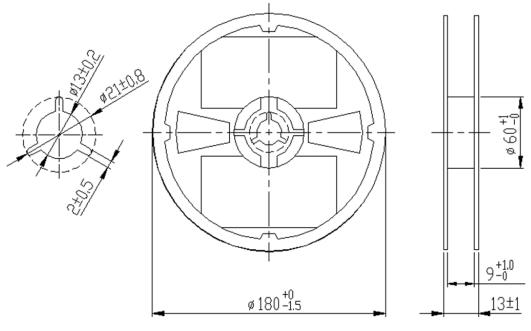
Note: Lead free solder is recommended.

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

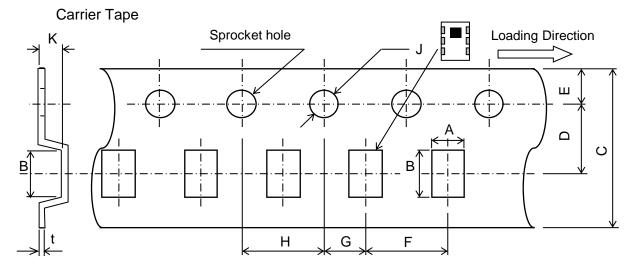
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PACKAGING STYLE

Reel Dimensions



Dimensions in mm



Dimensions (mm)

I	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

使用注意事项

在使用本产品前,请务必随附采购规格书。

安全注意事项

使用本产品时, 请注意安全事项。

注意

本产品目录中记载的产品是指在通用标准用途意义上使用于一般电子设备 (AV 设备,通信设备,家电产品,娱乐设备,计算机设备,个人设备,办公设备,计测设备,工业机器人),并且该一般电子设备要在通常的操作和使用方法下使用。

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- (2) 交通运输设备 (汽车, 电动火车, 船舶等)
- (3) 医疗设备
- (4) 发电控制设备
- (5) 原子能源相关设备
- (6) 海底设备
- (7) 交通控制设备

- (8) 公共信息处理设备
- (9) 军事设备
- (10) 电加热设备、燃烧设备
- (11) 防灾 / 预防犯罪设备
- (12) 安全设备
- (13) 其他不被视为常规用途的用途

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