

Multilayer Diplexer
For LTE

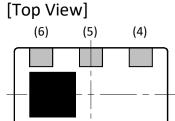
DPX Series 2012 TYPE

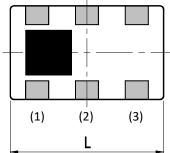
P/N: **DPX202690DT-4084A6**

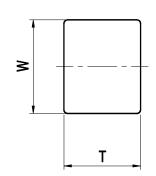


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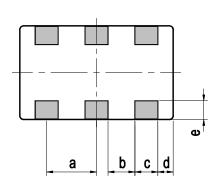
SHAPES AND DIMENSIONS

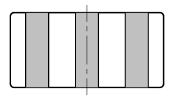












Dimensions (mm)

<u> </u>	1010110	\····/					
┙	W	Т	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					

■ TEMPERATURE RANGE



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

Material
Sn plate

• All specifications are subject to change without notice.

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ELECTRICAL CHARACTERISTICS

(Measurement)

Low-Band

Parameter	Frequency (MHz)			TDK Spec			
Parameter				Min.	Тур.	Max.	
Insertion Loss (dB)	1710	to	1980	_	0.52	0.80	
	2110	to	2170	-	0.76	1.00	
Return Loss (dB)	1710	to	1980	10	20.6	-	
	2110	to	2170	10	23.3	-	
Attenuation (dB)	2500	to	2690	12	15.4	-	
Power Handling (W)	1710	to	2170	_	-	2	

Ta = +25 + /-5°C

High-Band

Parameter	Erogue	Frequency (MHz)			TDK Spec			
Parameter	Freque				Typ.	Max.		
Insertion Loss (dB)	2500	to	2690	-	0.72	1.00		
Return Loss (dB)	2500	to	2690	10	17.1	-		
Attenuation (dB)	1710	to	1980	12	14.5	-		
	2110	to	2170	15	21.6	-		
Power Handling (W)	2500	to	2690	-	-	2		

Ta = +25+/-5°C

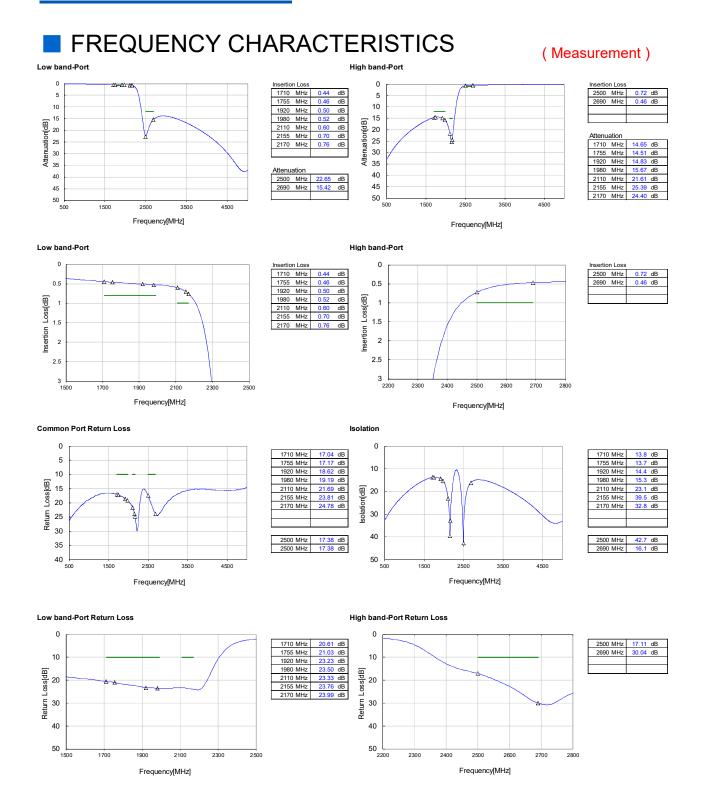
Common

Parameter	Frequency (MHz)			TDK Spec			
Farameter				Min.	Typ.	Max.	
Return Loss (dB)	1710	to	1980	10	17.0	-	
	2110	to	2170	10	21.6	-	
	2500	to	2690	10	17.3	-	

Ta = +25+/-5°C



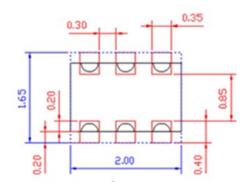
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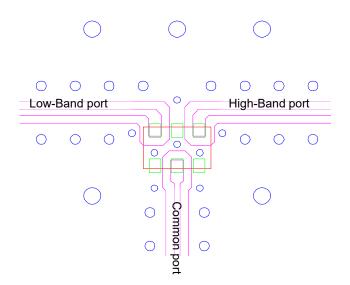
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RECOMMENDED LAND PATTERN



Unit: [mm]

EVALUATION BOARD



	Resist
\circ	Thru Hole

Material, Layer	Thickness
Top Resist	Resist
Copper Surface Pattern	0.035mm
FR-4	0.100mm
Copper Inner GND	0.018mm
FR-4	0.300mm
Copper Bottom GND	0.035mm

^{*} Line width should be designed to mach 50 ohm characteristic impedance depending on PCB material and thickness.

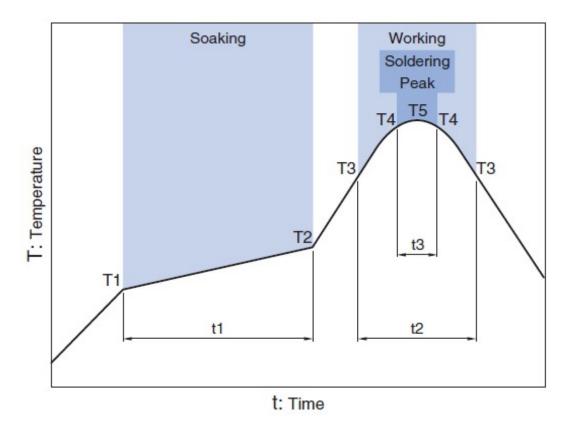
ENVIROMENT INFORMATION

RoHS Statement RoHS Compliance

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■ RECOMMENDED REFLOW PROFILE

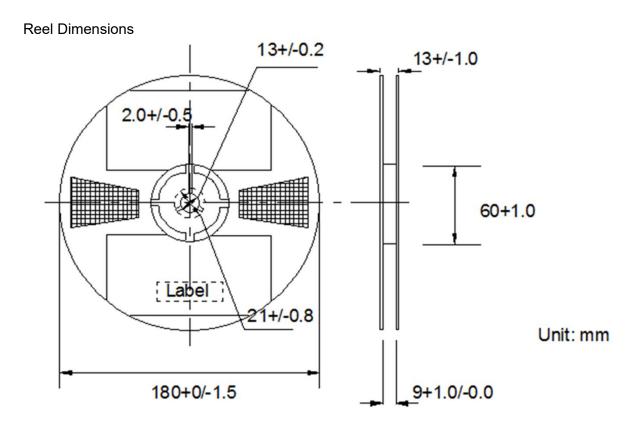
Pb free solder



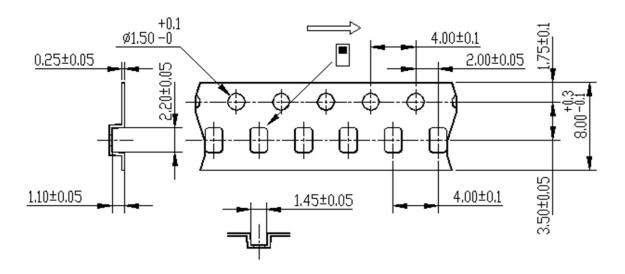
Soaking			king	V	Vorking	Sold	Peak	
Temp.).	Time	Temp.	Time	Temp.	Time	Temp.
T'	1 7	T2	t1	T3	t2	T4	t3	T5
150	°C 18	30°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

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PACKAGING STYLE



Carrier Tape



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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LFB212G45SG8C341 LFB322G45SN1A504 LFL182G45TC3B746 SF2159E 30057 1P510S CER0813B 3A325 40287 41180 ATB322575032NCT B69842N5807A150 BD0810N50100AHF BD2326L50200AHF BD2425J50200AHF HMC189AMS8TR C5060J5003AHF JHS114-PIN JP503AS DC0710J5005AHF DC2327J5005AHF DC3338J5005AHF 43020 LFB2H2G60BB1C106 LFL15869MTC1B787
X3C19F1-20S XC3500P-20S 10013-20 SF2081E SF2194E SF2238E CDBLB455KCAX39-B0 RF1353C PD0922J5050D2HF