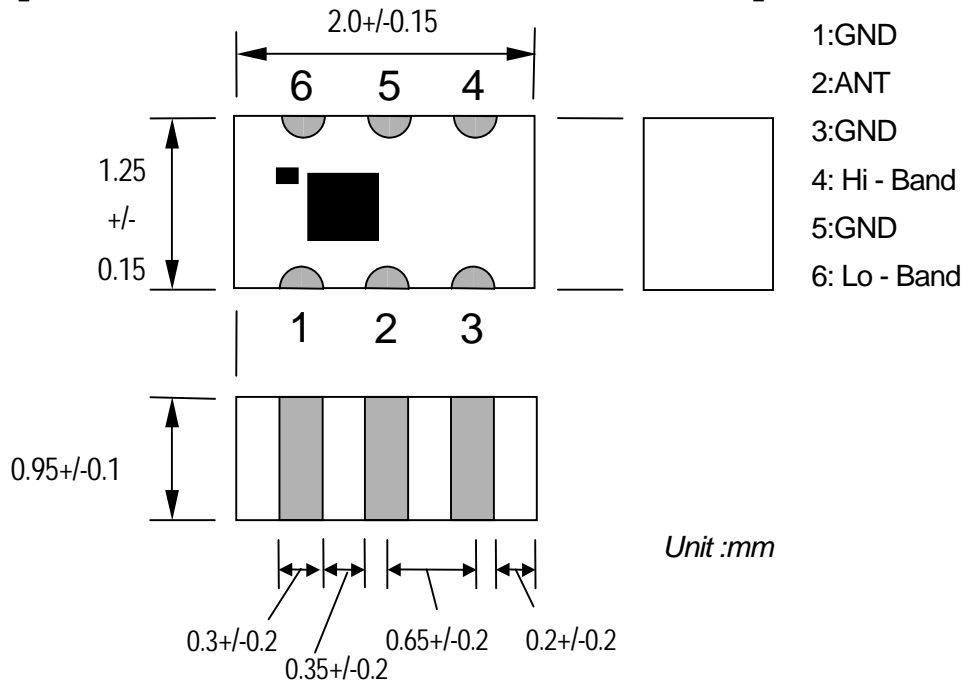


## MULTILAYER DIPLEXER TARGET

P/N: **DPX204752DT-4028A1**

### [MECHANICAL DIMENSIONS TARGET]



### [ELECTRICAL CHARACTERISTICS ]

No	PARAMETER	FREQ (MHz)	SPEC		UNIT
			Min.	Max.	
1	Insertion Loss(Lo – Band Port)	2300-2500	-	1.1	dB
2	Insertion Loss(Hi – Band Port)	3168-4752	-	1.2	dB
3	Return Loss(ANT Port)	2300-2500	10.0	-	dB
4	Return Loss(ANT Port)	3168-4752	7.0	-	dB
5	Attenuation(Hi – Band Port)	2300-2500	20.0	-	dB
6	Attenuation(Lo – Band Port)	3168-4752	20.0	-	dB

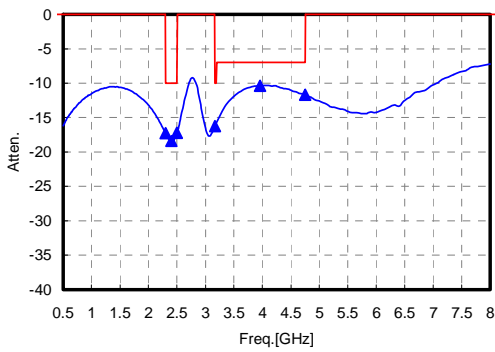
Note1: These samples are marked with a trial sample identification. This applies for these samples only. In mass production, this sample marking will be changed to show in the TDK full specification.

Note2: The land shape to mount this SMD product soldering influences an electric characteristic.

**[FREQUENCY RESPONSE]**

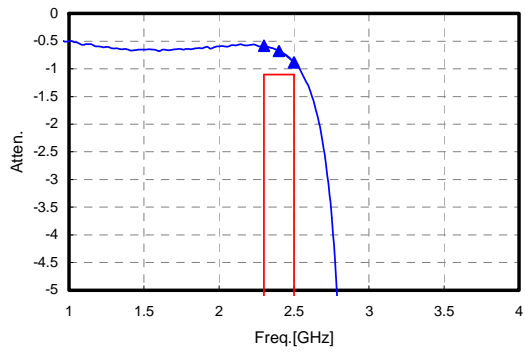
**DPX204752DT-4028A1**  
**ANT-LOW**

**TDK**  
2006/5/12



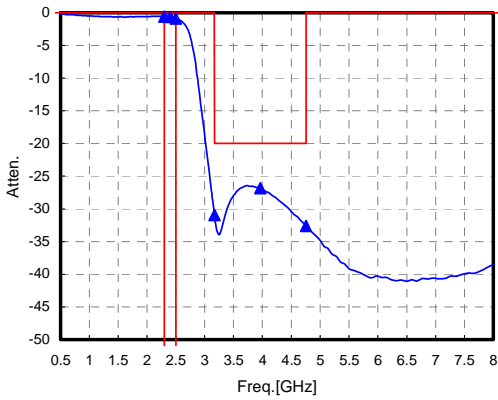
**S11**  
**Return Loss**

2.3 GHz	-17.28 dB
2.4 GHz	-18.4 dB
2.5 GHz	-17.2 dB
3.168 GHz	-16.2 dB
3.96 GHz	-10.4 dB
4.752 GHz	-11.7 dB



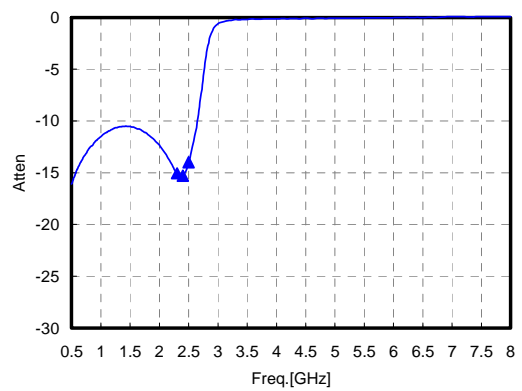
**S21**  
**Insertion Loss**

2.3 GHz	-0.585 dB
2.4 GHz	-0.676 dB
2.5 GHz	-0.887 dB



**S21**  
**Attenuation**

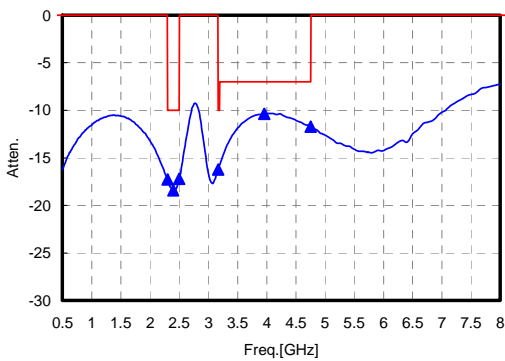
3.168 GHz	-30.97 dB
3.960 GHz	-26.8 dB
4.752 GHz	-32.6 dB
-	-
-	-
-	-



**S22**  
**Return Loss**

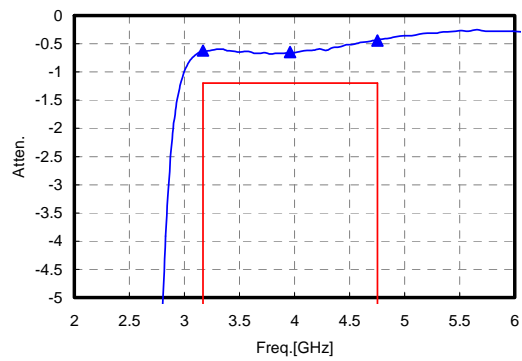
2.3 GHz	-15.1 dB
2.4 GHz	-15.3 dB
2.5 GHz	-13.99 dB

**ANT-HIGH**



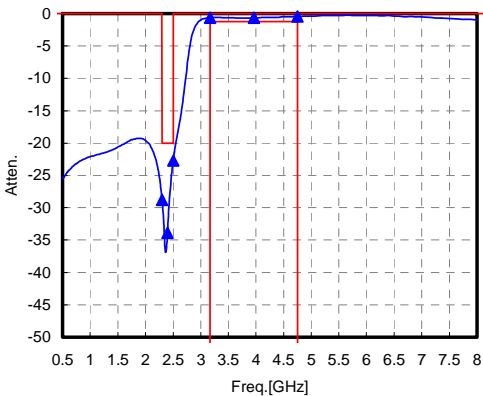
**S11**  
**Return Loss**

2.3 GHz	-17.28 dB
2.4 GHz	-18.4 dB
2.5 GHz	-17.21 dB
3.168 GHz	-16.22 dB
3.96 GHz	-10.37 dB
4.752 GHz	-11.7 dB



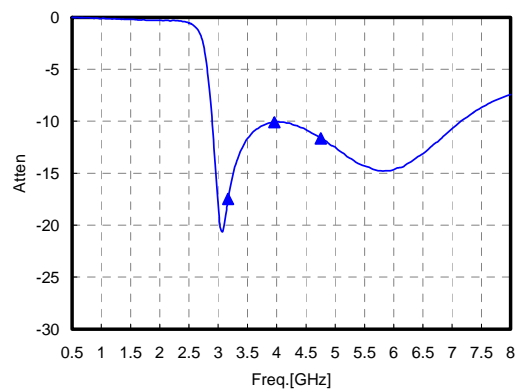
**S31**  
**Insertion Loss**

3.168 GHz	-0.622 dB
3.96 GHz	-0.651 dB
4.752 GHz	-0.443 dB



**S31**  
**Attenuation**

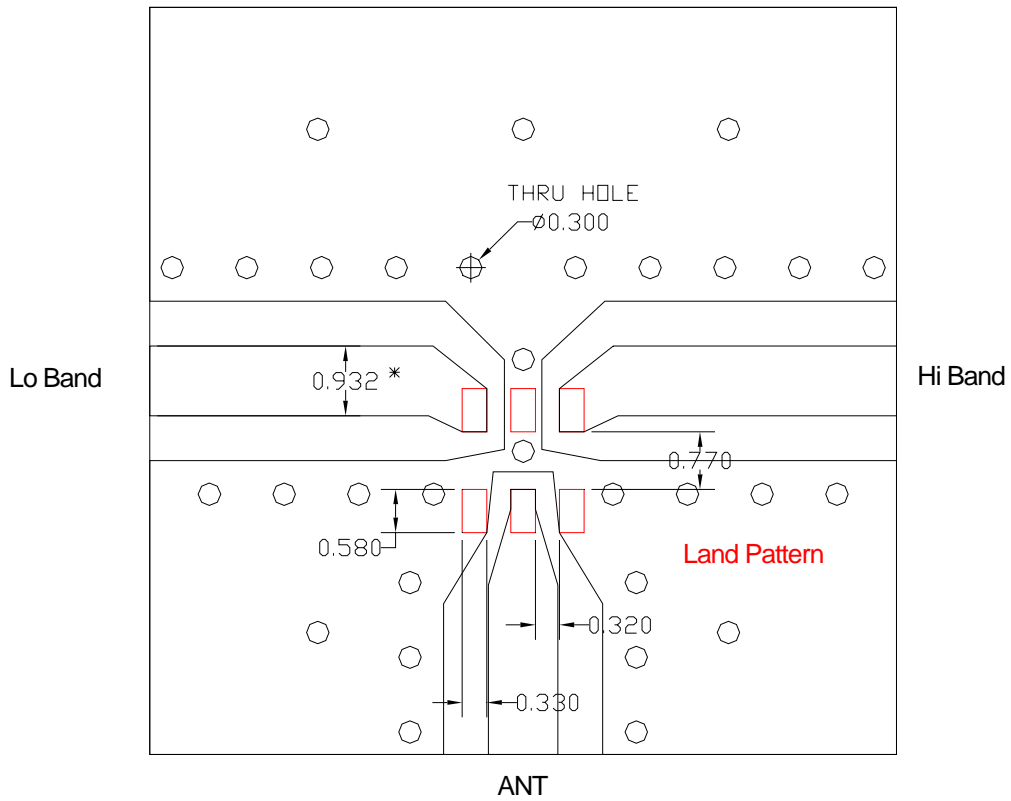
2.3 GHz	-28.79 dB
2.4 GHz	-33.87 dB
2.5 GHz	-22.73 dB
-	-
-	-



**S33**  
**Return Loss**

3.168 GHz	-17.48 dB
3.96 GHz	-10.1 dB
4.752 GHz	-11.64 dB

**[RECOMMENDED LAND PATTERN ]**



**Unit : [mm]**

Note: \* Microstripline Width be designed to match 50ohm characteristic impedance depending on PCB material and thickness.