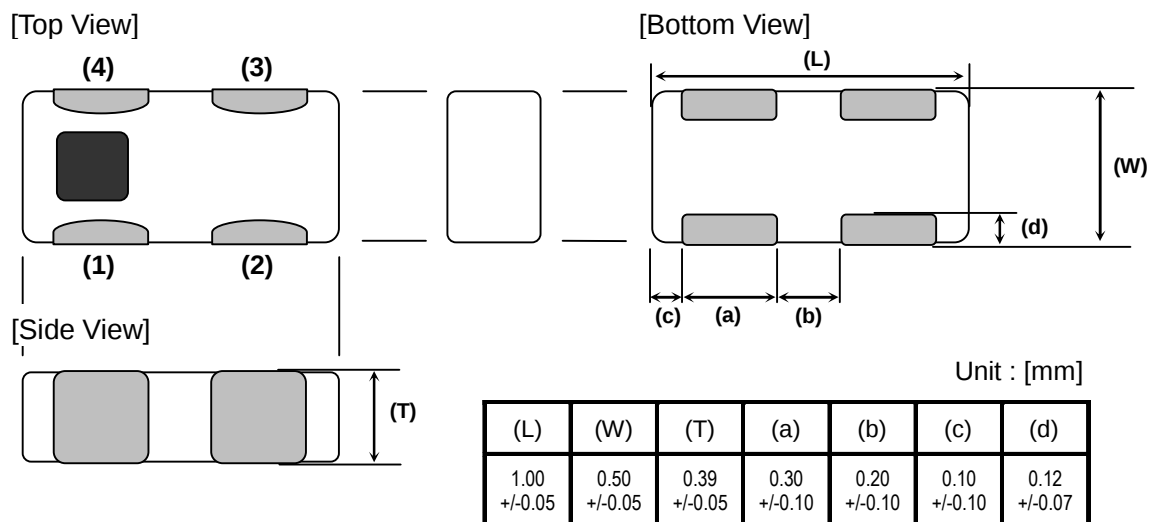


1005 TYPE MULTILAYER DIPLEXER

P/N: **DPX105850DT-6019A1**

MECHANICAL DIMENSIONS



[PIN FUNCTION]

(1)	(2)	(3)	(4)
Common(ANT)	GND	High-Band (5G)	Low-Band (2.4G)

TEMPERATURE RANGE

Storage Temperature	-40 ~ +85 °C
Operating Temperature	-40 ~ +85 °C

ELECTRICAL CHARACTERISTICS

Low-Band

Parameter	Freq. (MHz)	Specification	Sample Typ.	Unit
Insertion Loss Ta=+25degC	2400-2500	0.50 max	0.30	dB
Attenuation	4800-6000	18 min	24	dB
	7200-7500	15 min	21	dB
Return Loss	2400-2500	10 min	18	dB

High-Band

Parameter	Freq. (MHz)	Specification	Sample Typ.	Unit
Insertion Loss	5150-5850	1.5 max	1.04	dB
Attenuation	700 -2025	27 min	37	dB
	2400-2690	35 min	40	dB
	3500-3700	10 min	14	dB
	7250-7800	11 min	15	dB
	10300-11700	20 min	28	dB
Return Loss	5150-5850	10 min	15	dB

Common Port

Parameter	Freq. (MHz)	Specification	Sample Typ.	Unit
Return Loss	2400-2500	10 min	19	dB
	5150-5850	10 min	14	dB

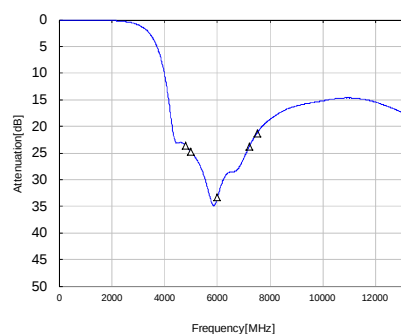
*We recommend to terminate for all port with 50ohm at all times.

FREQUENCY CHARACTERISTICS

DPX105850DT-6019A1 Measurement Result

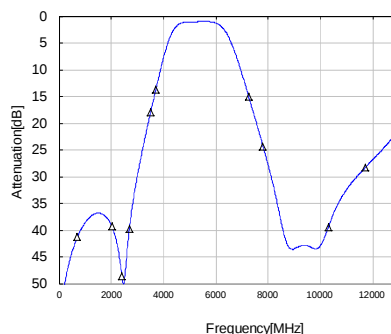
Low band-Port

S21



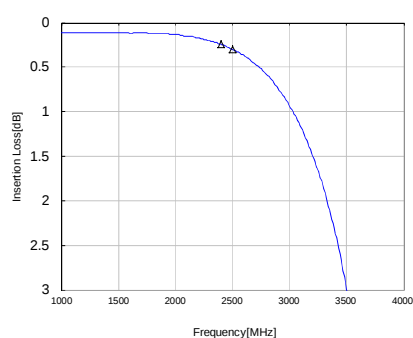
High band-Port

S31



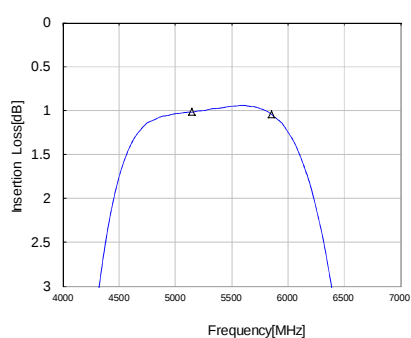
Low band-Port

S21



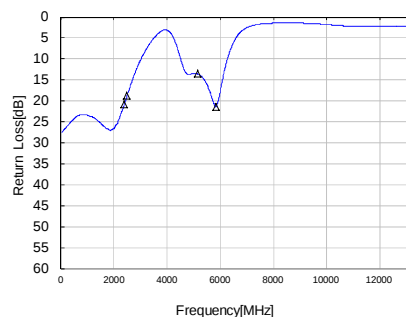
High band-Port

S31



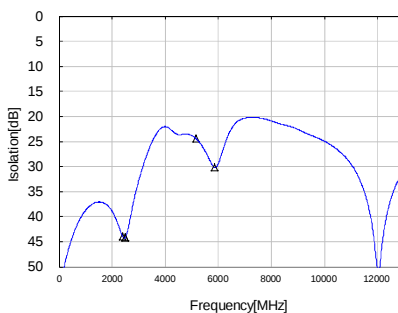
Common Port Return Loss

S11



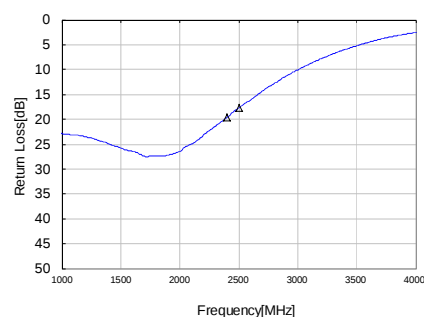
Isolation

S23



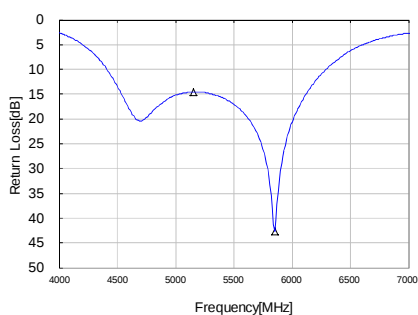
Low band-Port Return Loss

S22



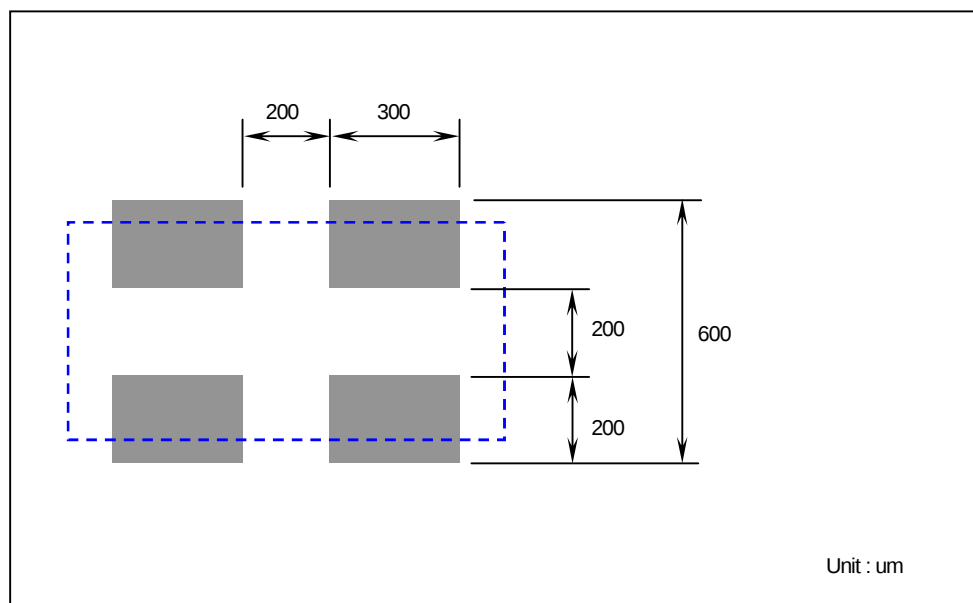
High band-Port Return Loss

S33

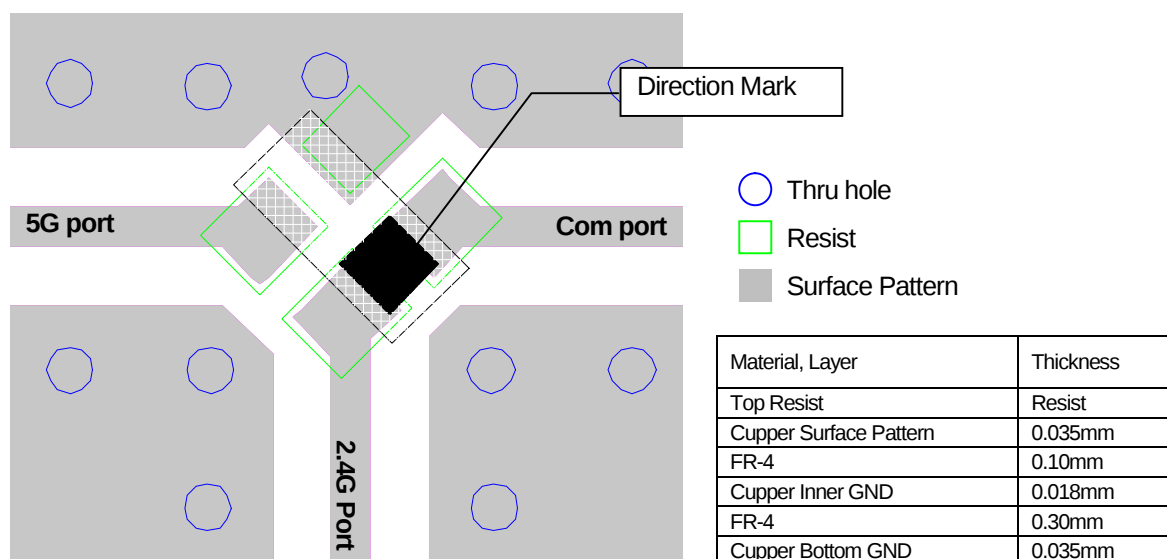


Note: All specifications are subject to change and are not guaranteed.

LAND PATTERN



EVALUATION BORD



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