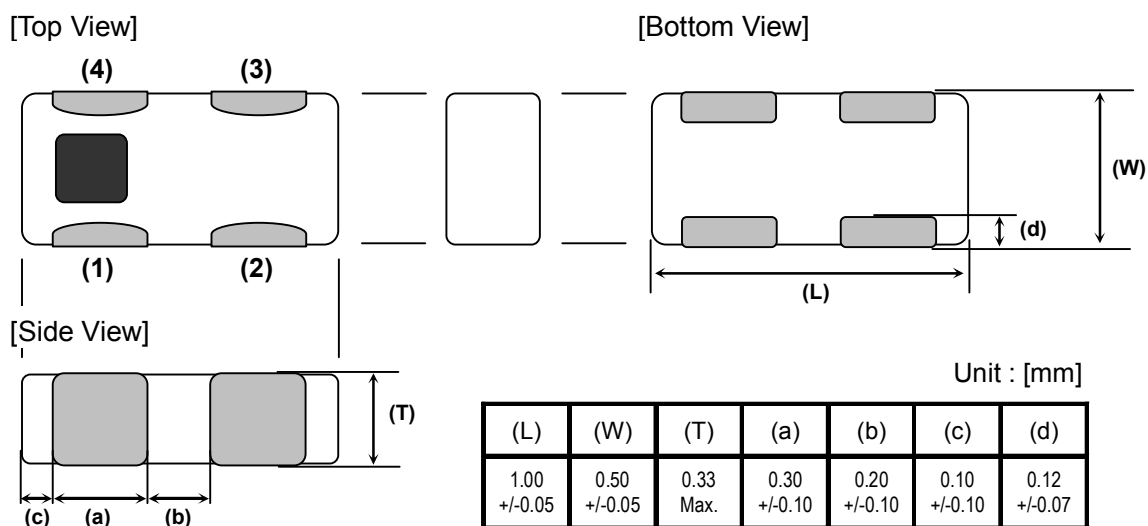


1005 TYPE MULTILAYER DIPLEXER

P/N: **DPX105950DT-6012A1**

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

(Ta= +25 ± 5 °C)

Low-Band

Parameter	Freq. (MHz)	Specification	Typical Data	Unit
Insertion Loss Ta=+25degC	2400-2500	0.50 max	0.37	dB
Insertion Loss Ta=-40~+85degC	2400-2500	0.60 max	-	dB
Attenuation	4800-6000	23 min	29	dB
	7200-7500	23 min	29	dB
Return Loss	2400-2500	10 min	22	dB

High-Band

Parameter	Freq. (MHz)	Specification	Typical Data	Unit
Insertion Loss Ta=+25degC	4900-5950	0.80 max	0.56	dB
Insertion Loss Ta=-40~+85degC	4900-5950	1.00 max	-	dB
Attenuation	30 -2400	25 min	29	dB
	2400-2500	27 min	41	dB
	2500-2690	23 min	29	dB
	9800-11900	20 min	30	dB
Return Loss	4900-5950	10 min	15	dB

Common Port

Parameter	Freq. (MHz)	Specification	Typical Data	Unit
Return Loss	2400-2500	10 min	22	dB
	4900-5950	10 min	15	dB

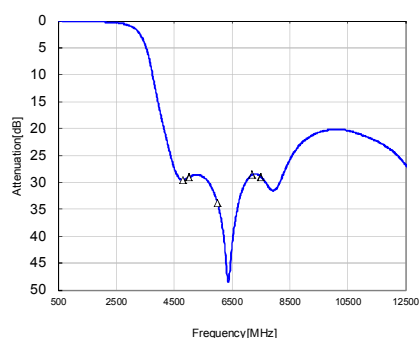
We recommend to terminate for all port with 50ohm at all times.

FREQUENCY CHARACTERISTICS

DPX105950DT-6012A1 Sample Typical

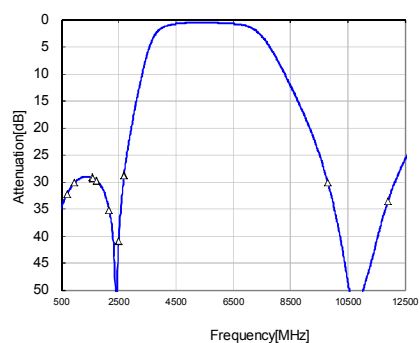
Low band-Port

S21



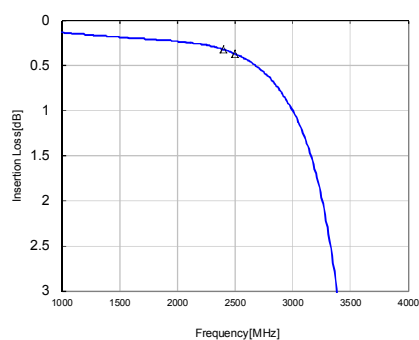
High band-Port

S31



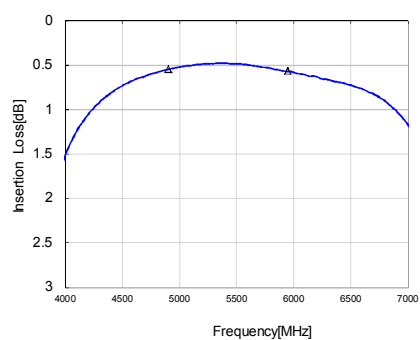
Low band-Port

S21



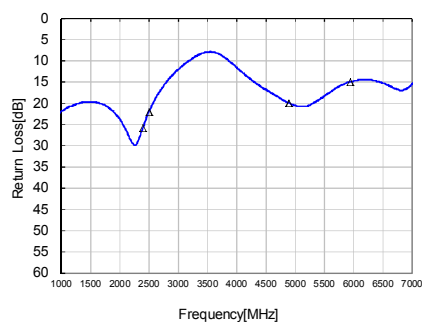
High band-Port

S31



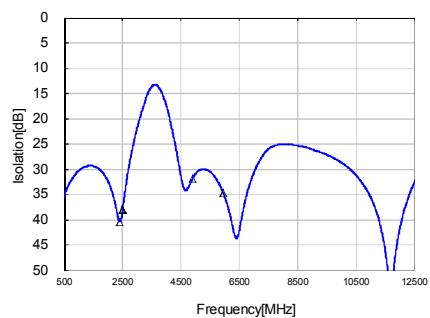
Common Port Return Loss

S11



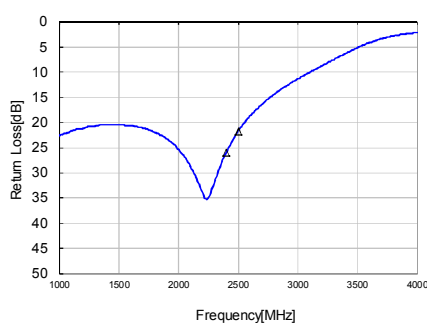
Isolation

S23



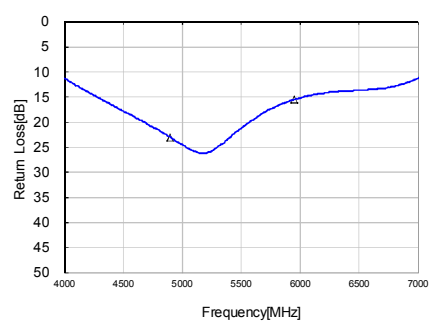
Low band-Port Return Loss

S22



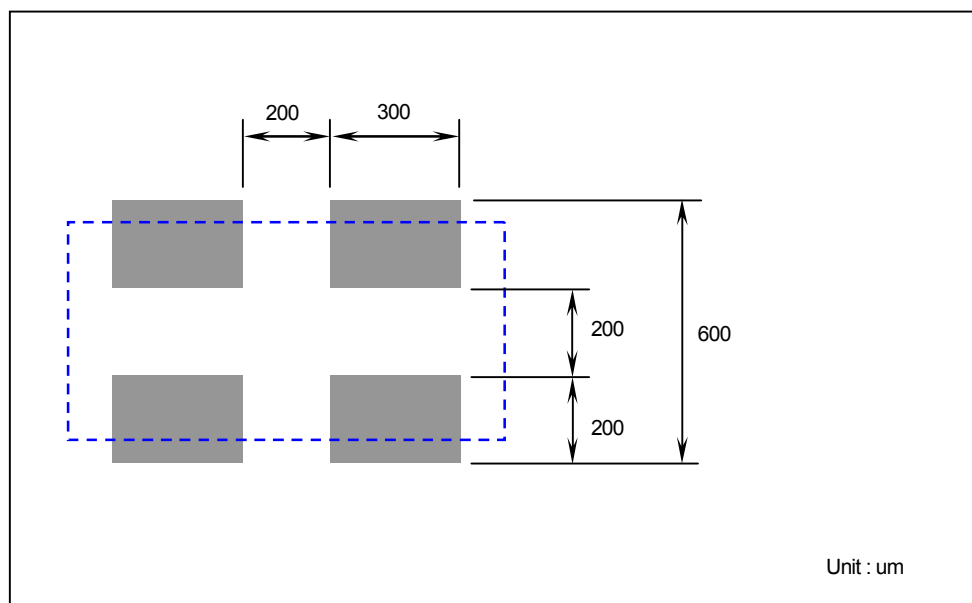
High band-Port Return Loss

S33

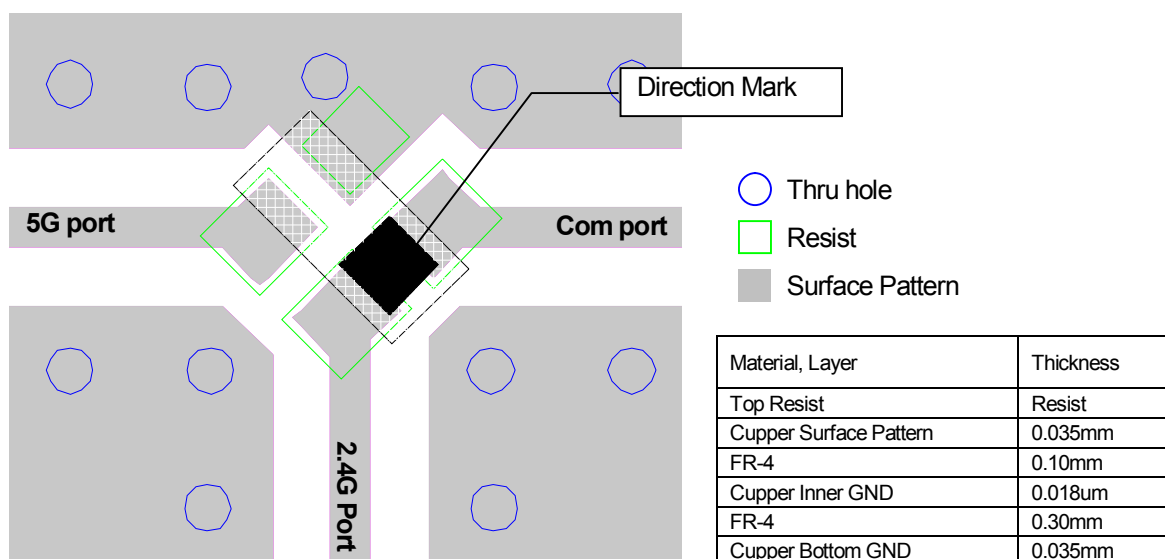


Note: All specifications are subject to change and are not guaranteed.

LAND PATTERN



EVALUATION BORD



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