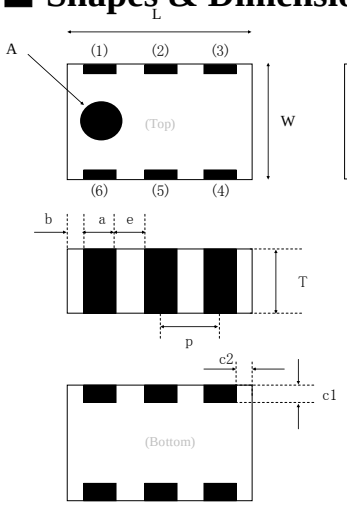
Diplexer (for LTE Band)

FI 212P082931-T

■ Electrical Characteristics

			Specification	Typical Data
Low Band	Pass band frequency	Pass band 1	698 - 894 MHz	←
		Pass band 2	880 - 960 MHz	←
	Insertion Loss at Pass band	Pass band 1	0.5dB Max. (25deg-C) 0.6dB Max. (-40~+85deg-C)	0.35dB
		Pass band 2	0.7dB Max. (25deg-C) 0.8dB Max. (-40~+85deg-C)	0.45dB
	V.S.W.R at Pass band	Common Port	2.0 Max.	1.10
		Low Band Port	2.0 Max.	1.10
	Attenuation	1420-2690MHz	13.0dB Min.	14.5dB
	Impedance	Common Port	50 ohm	-
		Low Band Port	50 ohm	-
High Band	Pass band frequency	Pass band 3	1420 - 1520 MHz	←
		Pass band 4	1560 - 1610 MHz	←
		Pass band 5	1710 - 2170 MHz	←
		Pass band 6	2300 - 2690 MHz	←
	Insertion Loss at Pass band	Pass band 3	0.7dB Max. (25deg-C) 0.8dB Max. (-40~+85deg-C)	0.49dB
		Pass band 4	0.5dB Max. (25deg-C) 0.6dB Max. (-40~+85deg-C)	0.30dB
		Pass band 5	0.5dB Max. (25deg-C) 0.6dB Max. (-40~+85deg-C)	0.35dB
		Pass band 6	0.5dB Max. (25deg-C) 0.6dB Max. (-40~+85deg-C)	0.35dB
	V.S.W.R at Pass band	Common Port	2.0 Max.	1.40
		High B and Port	2.0 Max.	1.40
	Attenuation	698-960MHz	13.0dB Min.	17.7dB
	Impedance	Common Port	50 ohm	-
		High B and Port	50 ohm	-
Isolation		698-960MHz	13.0dB Min.	16.1dB
		1420-2690MHz	13.0dB Min.	15.5dB

■ Shapes & Dimensions

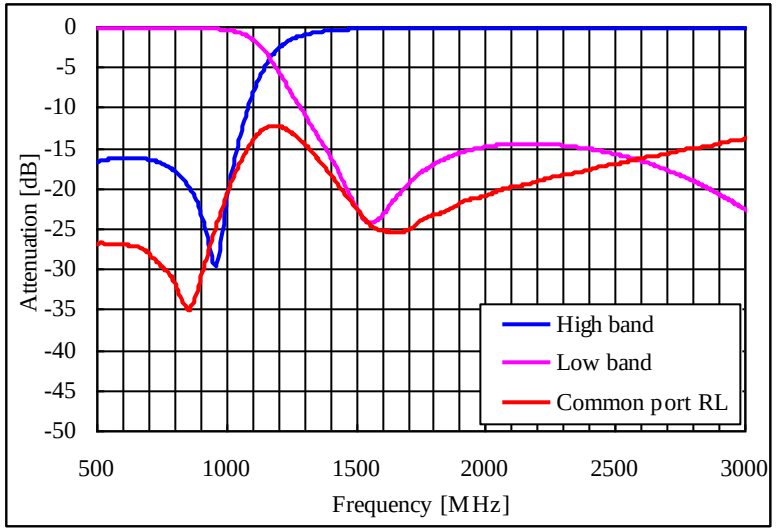


Terminal	
①	Low Band
②	GND
③	High Band
④	GND
⑤	Common
⑥	GND

Mark	Marking
A	Directional Input Mark

Mark	Dimension	Mark	Dimension
L	2.00 +/−0.15	c1	0.20 +/−0.15
W	1.25 +/−0.15	c2	0.20 +/−0.15
T	0.90 +/−0.1	e	0.35 +/−0.20
a	0.30 +/−0.20	p	0.65 +/−0.20
b	0.20 +/−0.15		

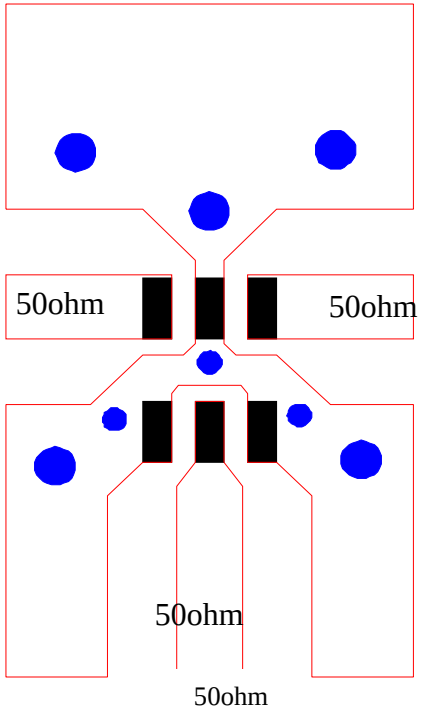
■ Actual Data



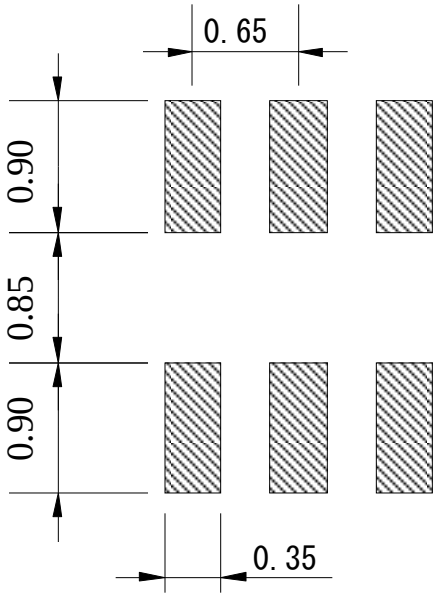
The Example of a Land Pattern

- Diplexer (FI 212P Series)

Electrodes pattern



Resist pattern (aperture size)



Line width be designed to
match 50ohm characteristic impedance.

Unit : mm