Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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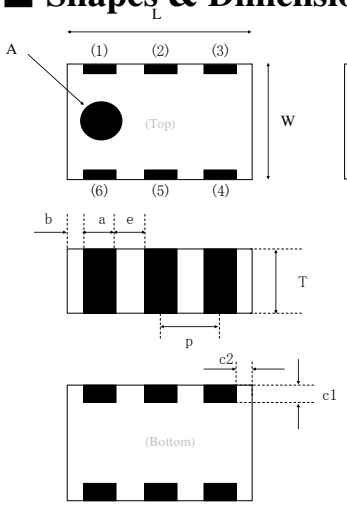
Diplexer (for LTE Band)

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

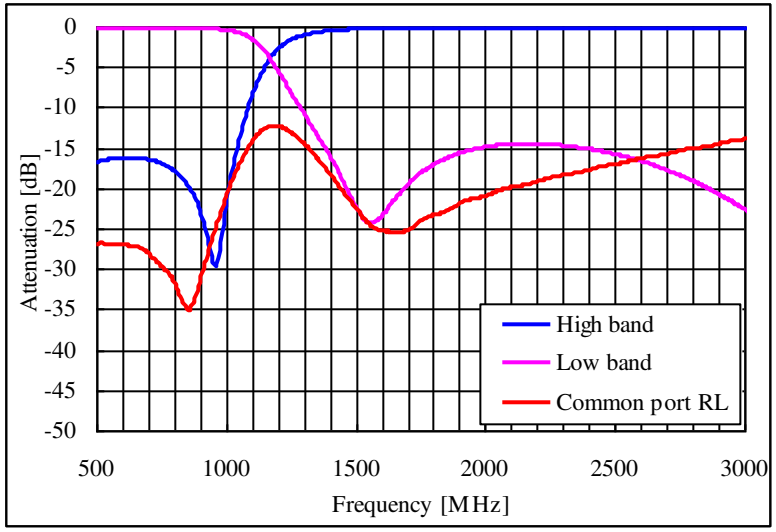


Terminal	
①	Low Band
②	GND
③	High Band
④	GND
⑤	Common
⑥	GND

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		

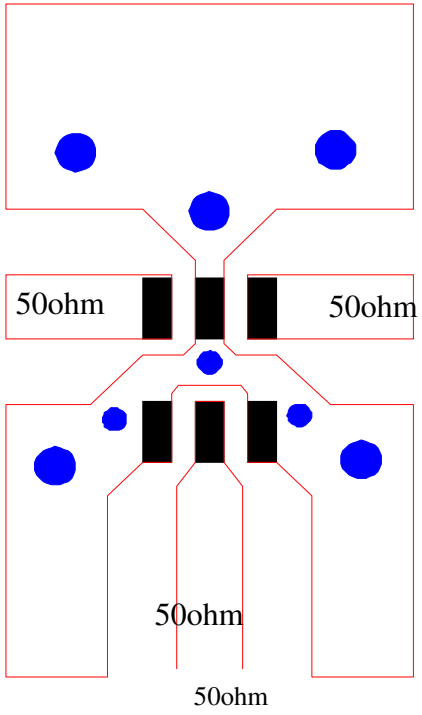
■ Actual Data



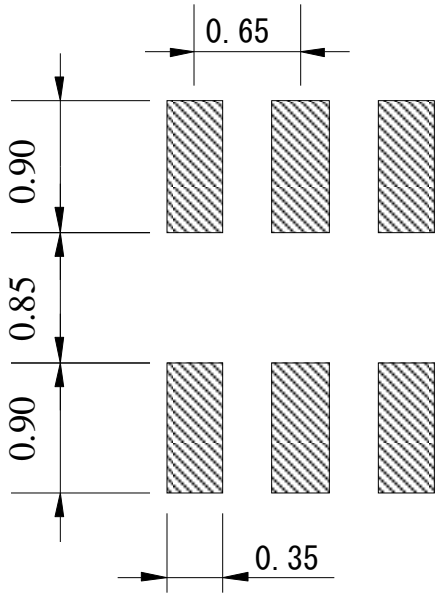
The Example of a Land Pattern

Diplexer (FI 212P Series)

Electrodes pattern



Resist pattern (aperture size)



Line width be designed to
match 50ohm characteristic impedance.

Unit : mm