2012mm(0805inch) Diplexer

RB F Sim1 Sim2 Sim3 MP

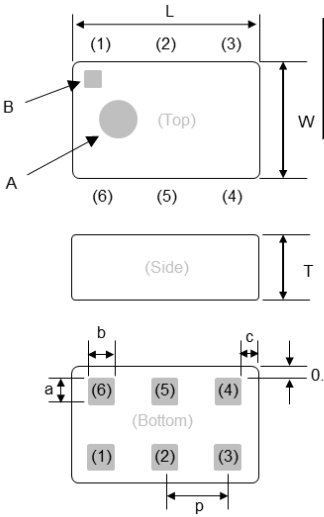
TSD1N21C3G20LV0KZT

■ Electrical Characteristics

No.	TSD1N21C3G20LV0KZT		Specification Min.	Typ.	Max.	Unit	Remarks
Low							(5)Com-(3)Low
1	Pass Band Frequency		1400	-	5000	MHz	
2	Insertion loss	1400-1710 MHz	-	0.16	0.40	dB	Ta= +25°C
			-	-	0.50	dB	Ta= -40 to +85°C
		1710-2690 MHz	-	0.20	0.50	dB	Ta= +25°C
			-	-	0.60	dB	Ta= -40 to +85°C
		3300-5000 MHz	-	0.64	1.20	dB	Ta= +25°C
			-	-	1.30	dB	Ta= -40 to +85°C
3	V.S.W.R.	1400-5000 MHz	-	1.47	2.0	-	Ta= -40 to +85°C
4	Attenuation	6240-8250 MHz	20	27.0	-	dB	
		8250-10000 MHz (*)	-	28.4	-	dB	
		10000-15000 MHz (*)	-	28.4	-	dB	
High							(5)Com-(1)High
1	Pass Band Frequency		6240	-	8250	MHz	
2	Insertion loss	6240-8250 MHz	-	0.77	1.10	dB	Ta= +25°C
			-	-	1.20	dB	Ta= -40 to +85°C
3	V.S.W.R.	6240-8250 MHz	-	1.69	2.0	-	Ta= -40 to +85°C
4	Attenuation	1400-1805 MHz	30	39.4	-	dB	
		1805-1950 MHz	30	39.3	-	dB	
		1950-2400 MHz	30	39.4	-	dB	
		2400-2500 MHz	30	40.1	-	dB	
		2500-2690 MHz	30	40.5	-	dB	
		3300-5000 MHz	20	29.8	-	dB	
		12450-13500 MHz (*)	-	9.1	-	dB	
		15500-16500 MHz (*)	-	10.0	-	dB	
Isolation							
1	(3)Low to (1)High	1400-1805 MHz	30	39.1	-	dB	Ta= -40 to +85°C
		1805-1950 MHz	30	39.1	-	dB	
		1950-2400 MHz	30	39.1	-	dB	
		2400-2500 MHz	30	39.7	-	dB	
		2500-2690 MHz	30	40.0	-	dB	
		3300-5000 MHz	20	30.5	-	dB	
		6240-8250 MHz	20	27.1	-	dB	
Impedance							
1	Impedance		-	50	-	Ohm	All port

(*)Reference Operating Temp. -40 to +85 deg-C

■ Shapes & Dimensions



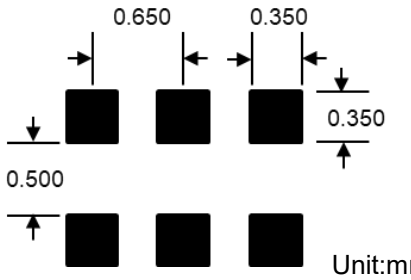
Mark	Dimension	Mark	Dimension
L	2.00 +/- 0.15	a	0.30 +/- 0.10
W	1.25 +/- 0.15	b	0.30 +/- 0.10
T	0.70 Max	c	0.20 +/- 0.10
		p	0.65 +/- 0.10

Uint : mm

Mark	Remark
A	Marking dot
B	Test Point(Internal Use Only)

Teminal	
(1)	High Band
(2)	GND
(3)	Low Band
(4)	GND
(5)	Common
(6)	GND

■ Example of land pattern



(1) Metal mask thickness ; 0.08mm
(2) Metal opening ratio : 100% of land pattern

Measured DATA

■ Plot Data