

Power Divider-PD

WGSCG-2-592

2 Way-0° 50Ω 3800 to 5900 MHz

Ver. A
2025.06.16

Maximum Rating

Operating Temperature -55°C ~ +85°C

Storage Temperature -55°C ~ +85°C

RF Input Power 2W max

Pin Connections

SUM PORT 2

Port 1 6

Port 2 4

Ground 1,3,5

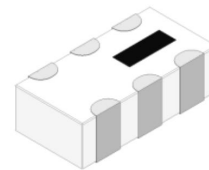
Port 1-2 resistor external 100 OHMS

Features

- ✧ Isolation resistor, external 100ohms;
- ✧ Low insertion loss;
- ✧ Excellent amplitude / phase unbalance;
- ✧ High isolation;
- ✧ Excellent power handling ;
- ✧ Temperature stable LTCC;
- ✧ ESD nonsensitive

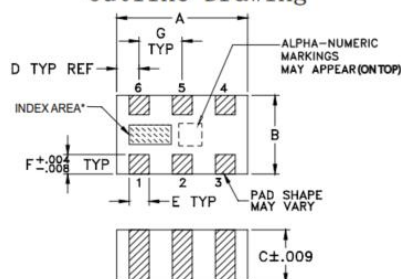
Application

- ✧ WLAN
- ✧ ISM
- ✧ Cellular



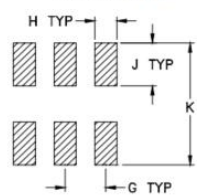
RoHS Compliant

Outline Drawing



*Shape of index marking may vary

PCB Land Pattern

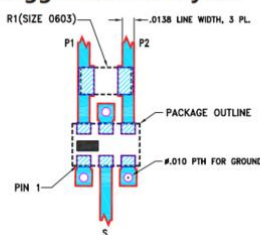


Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch)

A	B	C	D	E	F
.079	.049	.033	.014	.012	.012
2.01	1.24	0.84	0.36	0.30	0.30
G	H	J	K	wt	
.026	.014	.039	.110	grams	
0.66	0.36	1.00	2.80	.008	

Suggested PCB Layout



NOTES:

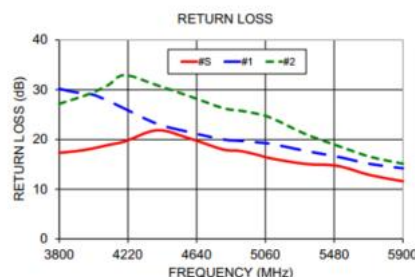
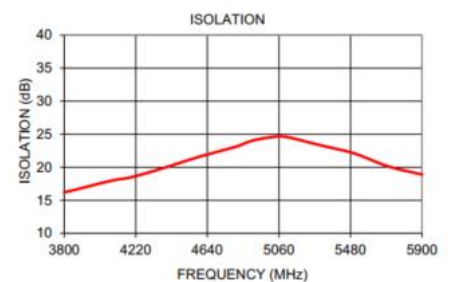
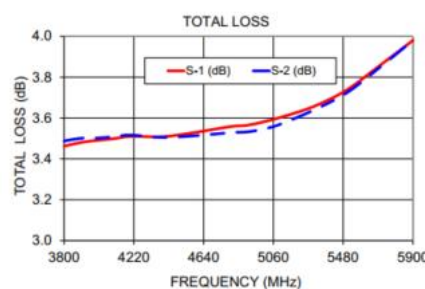
1. LINE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .008±.0007, COPPER: 1/2 OZ, EACH SIDE. FOR OTHER MATERIALS LINE WIDTH MAY NEED TO BE MODIFIED.
2. UNIT FOOT PRINT IS OPTIMIZED FOR PERFORMANCE AND IS DIFFERENT FROM CASE STYLE GEORGIC-1 RECOMMENDATIONS.
3. CHIP COMPONENT FOOT PRINT IS SHOWN FOR REFERENCE. FOR COMPONENT VALUE, REFER TO TB-1043+.
4. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

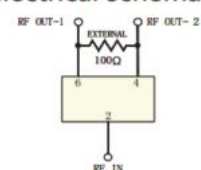
Electrical Specifications⁽¹⁾ at 25°C

Parameter	MIN	Typ.	MAX	Unit
Frequency Range	3800		5900	MHz
Insertion Loss, above 3.0 dB	--	0.8	1.4	dB
Isolation	11	15	-	dB
Phase Unbalance	-	1.5	7.0	Degree
Amplitude Unbalance	-	0.1	0.5	dB
Return Loss(Input)	-	16	-	dB
Return Loss(Output)	-	20	-	dB

Typical Performance at 25°C



electrical schematic



Notes

- a. The specifications are tested at 25°C±5°C, relative humidity 55~75%.
- b. Other quality and characteristic not specify in this datasheet. Please contact us for detail requirements.



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