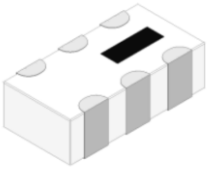
Power Divider-PD

WGPD-32160811D1T2

2 Way-0° 50Ω 800 to 1175 MHz

Ver. A

2022.02.17



RoHS Compliant

Maximum Rating

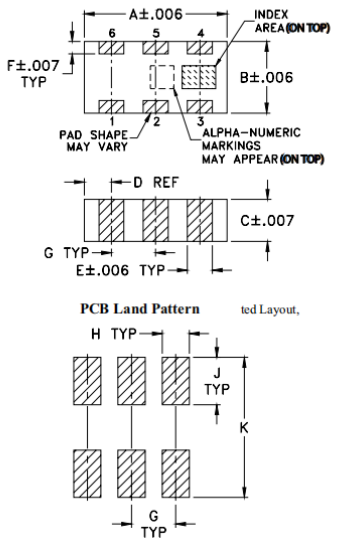
OperatingTemperature	-55℃~+100℃
StorageTemperature	-55℃~+100℃
RF Input Power	20W max

Pin Connections

SUM PORT	2
Port 1	6
Port 2	4
Ground	1,3,5
Port 1-2	resistor external 100 OHMS

Product Marking: A

Outline Drawing

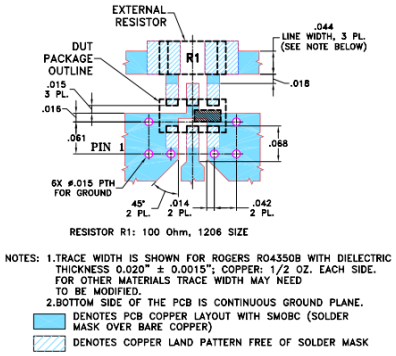


Outline Dimensions (inch / mm)

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28

G	H	J	K	wt
.039	.024	.042	.123	grams
0.99	0.61	1.07	3.12	.020

Demo Board MCL P/N: DP-3216
Suggested PCB Layout (DP-3216)

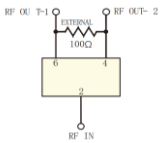


Features

- ✧ Isolation resistor, external 100ohms;
- ✧ Low insertion loss;
- ✧ Excellent amplitude / phase unbalance;
- ✧ High isolation;
- ✧ Excellent power handing , 20w as splitter;
- ✧ Temperature stable LTCC;
- ✧ ESD nonsensitive

Application

- ✧ GSM
- ✧ ISM
- ✧ Cellular



Functional Schematic

Electrical Specifications[(1)] at 25℃

Frequency (MHz)	Insertion Loss (dB)		Isolation (dB)		Phase Unbalance (Degrees)		AMPLITUDE UNBALANCE (dB)		Return Loss (dB)		
	Typ.	MAX.	Typ.	Min	Typ.	MAX	Typ.	MAX.	Input Typ.		Output Typ.
800-1175	0.5	0.8	20	15	0.25	1.0	0.05	0.1	14		18
875-1125	0.5	0.8	22	18	0.25	1.0	0.05	0.1	16		22

(1) Tested on Characterization Test Board DP-3216.

Typical Performance at 25℃

Frequency (MHz)	Total Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (dB)	Returen Loss (dB)		
	S-1	S-2				S	1	2
800	3.34	3.34	0.01	15.74	0.13	16.20	28.68	29.81
825	3.33	3.33	0.00	16.76	0.14	17.10	29.02	30.19
850	3.31	3.31	0.00	17.89	0.16	18.23	29.85	31.22
875	3.30	3.30	0.01	19.19	0.15	19.64	30.79	32.56
900	3.28	3.29	0.01	20.76	0.16	21.43	32.06	34.54
925	3.28	3.29	0.01	22.58	0.14	23.82	34.09	37.39
950	3.27	3.28	0.01	24.77	0.18	27.26	37.86	41.82
975	3.28	3.29	0.01	27.29	0.17	32.29	45.71	43.35
1000	3.28	3.30	0.02	29.37	0.19	33.41	50.89	37.20
1025	3.29	3.31	0.02	28.96	0.18	27.76	37.03	32.25
1050	3.31	3.33	0.02	26.76	0.21	23.51	31.91	28.95
1100	3.38	3.40	0.02	22.07	0.23	18.01	25.49	23.99
1125	3.43	3.46	0.02	20.26	0.25	16.08	23.27	22.00
1150	3.49	3.52	0.02	18.75	0.22	14.43	21.32	20.28
1175	3.57	3.60	0.02	17.47	0.25	13.01	19.63	18.77

Notes

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

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