查询QCC-20供应商 捷多邦，专业PCB打样工厂，24小时加急出货

Surface Mount

Power Splitter/Combiner

NEW!

QCC-20

2 Way-90° 50Ω

1200 to 2200 MHz

BLUE CELL™

CASE STYLE: GF981
PRICE: $4.95 ea. QTY (10-49)

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input	17.5W* max.

**derate linearly to 3.5W at 100°C ambient.*

Pin Connections

SUM PORT	2
PORT 1	8 (0°)
PORT 2	4 (90°)
GROUND	1,3,5,7
50 OHM TERM (EXTERNAL)	6

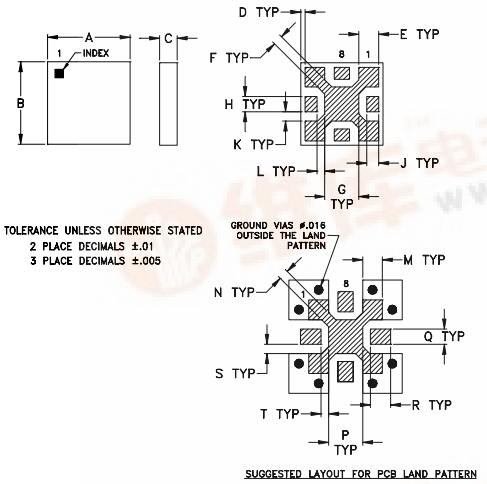
Features

- low insertion loss, 0.4 dB typ.
- high isolation, 25 dB typ.
- LTCC construction
- excellent temperature stability
- small size, 0.15"X0.15"
- patent pending

Applications

- WCDMA
- PCS
- DECT
- PHS
- defense
- radar

Outline Drawing

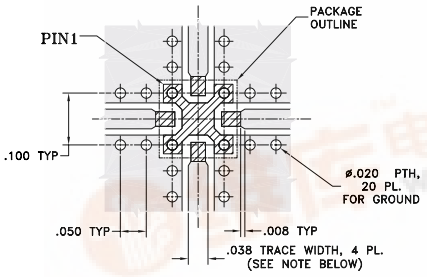


Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J
.150	.150	.032	.008	.036	.018	.062	.028	.022
3.81	3.81	0.81	0.20	0.91	0.46	1.57	0.71	0.56

K	L	M	N	P	Q	R	S	T	wt.
.017	.014	.036	.018	.062	.028	.037	.017	.014	grams
0.43	0.36	0.91	0.46	1.57	0.71	0.94	0.43	0.36	.05

Demo Board MCL P/N: TB-302
Suggested PCB Layout (PL-128)



NOTES:

1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS .020" ± .0025". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. IF YOUR PCB DESIGN RULES ALLOW, GROUND VIAS SHOULD BE PLACED UNDER THE LAND PATTERN FOR BETTER RF PERFORMENCE.

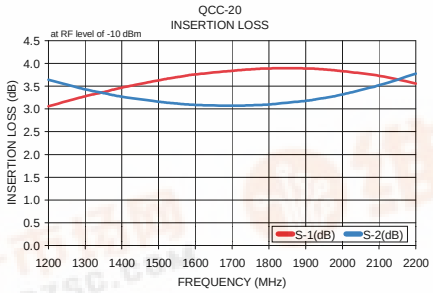
DENOTES PCB COPPER LAYOUT
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

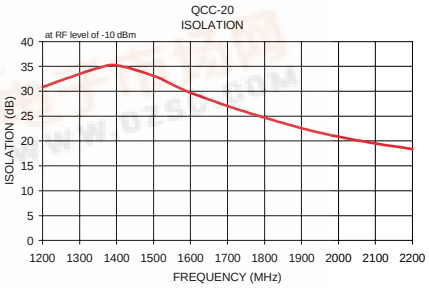
Splitter Electrical Specifications

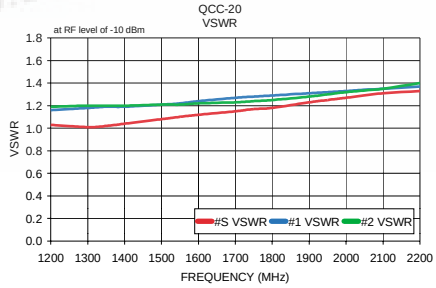
FREQ. RANGE (MHz) f_L-f_U	ISOLATION (dB) Typ.	ISOLATION (dB) Min.	INSERTION LOSS (dB) Avg. of coupled outputs less 3 dB Typ.	INSERTION LOSS (dB) Max.	PHASE UNBALANCE (Degrees) Typ.	PHASE UNBALANCE (Degrees) Max.	AMPLITUDE UNBALANCE (dB) Typ.	AMPLITUDE UNBALANCE (dB) Max.
1200-2200								
1200-1400	32	24	0.4	0.6	1	3	0.4	1.0
1400-1800	35	20	0.4	0.7	1	3	0.5	0.85
1800-2200	23	16	0.6	0.9	1	5	0.5	0.9

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) S-1	Insertion Loss (dB) S-2	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
1200.00	3.06	3.64	0.58	30.83	90.74	1.03	1.16	1.19
1300.00	3.28	3.43	0.16	33.49	91.05	1.01	1.18	1.20
1350.00	3.37	3.35	0.03	34.64	91.20	1.02	1.19	1.20
1400.00	3.47	3.27	0.20	35.21	91.33	1.04	1.19	1.20
1500.00	3.63	3.16	0.47	33.11	91.51	1.08	1.21	1.21
1550.00	3.70	3.12	0.58	31.38	91.57	1.10	1.22	1.21
1600.00	3.76	3.09	0.67	29.70	91.60	1.12	1.24	1.22
1700.00	3.84	3.07	0.77	27.04	91.58	1.15	1.27	1.23
1750.00	3.87	3.08	0.79	25.86	91.55	1.17	1.28	1.24
1800.00	3.89	3.10	0.79	24.69	91.48	1.18	1.29	1.25
1900.00	3.89	3.18	0.71	22.58	91.25	1.23	1.31	1.28
1950.00	3.87	3.24	0.63	21.66	91.11	1.25	1.32	1.30
2000.00	3.83	3.32	0.52	20.85	90.94	1.27	1.33	1.32
2100.00	3.73	3.52	0.21	19.49	90.53	1.31	1.35	1.35
2200.00	3.56	3.78	0.22	18.38	90.13	1.33	1.37	1.40







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