

Plug-In

Power Splitter/Combiner

PSCQ-2-40+
PSCQ-2-40

2 Way-90° 50Ω 23 to 40 MHz



Maximum Ratings

| | |
|-----------------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 1W max. |

Pin Connections

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

Features

- low insertion loss, 0.3 dB typ.
- excellent VSWR, 1.15:1 typ.
- rugged shielded case

Applications

- modulators
- balanced amplifiers

CASE STYLE: A01
PRICE: \$24.20 ea. QTY. (1-9)

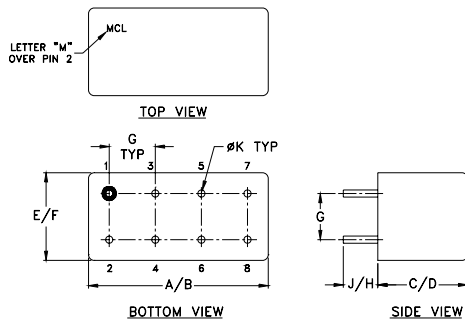
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Splitter Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) | INSERTION LOSS (dB) Avg. of Coupled Outputs less 3 dB | PHASE UNBALANCE (Degrees) | AMPLITUDE UNBALANCE (dB) |
|-------------------|----------------|---|---------------------------|--------------------------|
| f_L - f_U | Typ. Min. | Typ. Max. | Max. | Max. |
| 23-40 | 21 18 | 0.3 0.7 | 3 | 1.5 |

Outline Drawing

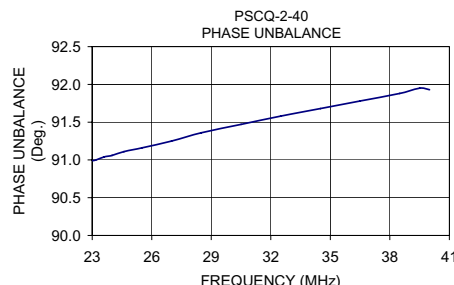
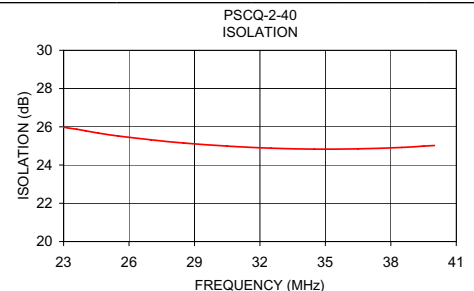
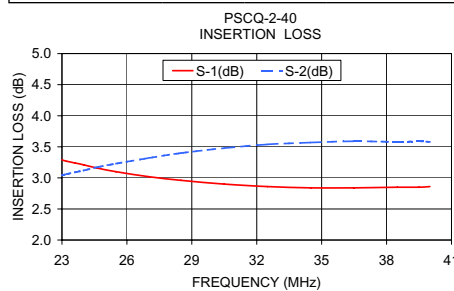


Outline Dimensions (inch/mm)

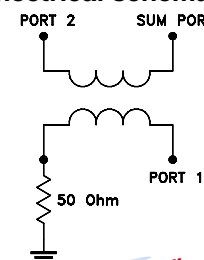
| A | B | C | D | E | F | |
|-------|-------|------|-------|------|-------|-------|
| .770 | .800 | .385 | .400 | .370 | .400 | |
| 19.56 | 20.32 | 9.78 | 10.16 | 9.40 | 10.16 | |
| G | H | J | K | | | wt |
| .200 | .20 | .14 | .031 | | | grams |
| 5.08 | 5.08 | 3.56 | 0.79 | | | 5.2 |

Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Amplitude Unbalance (dB) | Isolation (dB) | Phase Unbalance (deg.) | VSWR S | VSWR 1 | VSWR 2 |
|-----------------|---------------------|------|--------------------------|----------------|------------------------|--------|--------|--------|
| | S-1 | S-2 | | | | | | |
| 23.00 | 3.29 | 3.04 | 0.25 | 25.98 | 90.99 | 1.11 | 1.09 | 1.11 |
| 23.20 | 3.27 | 3.06 | 0.21 | 25.94 | 91.00 | 1.11 | 1.09 | 1.11 |
| 23.60 | 3.24 | 3.09 | 0.15 | 25.87 | 91.04 | 1.11 | 1.09 | 1.12 |
| 24.00 | 3.21 | 3.12 | 0.09 | 25.79 | 91.06 | 1.11 | 1.10 | 1.12 |
| 24.60 | 3.16 | 3.17 | 0.00 | 25.67 | 91.11 | 1.11 | 1.10 | 1.12 |
| 25.50 | 3.10 | 3.23 | 0.12 | 25.52 | 91.16 | 1.11 | 1.10 | 1.12 |
| 27.00 | 3.02 | 3.32 | 0.30 | 25.32 | 91.25 | 1.12 | 1.10 | 1.13 |
| 28.50 | 2.96 | 3.40 | 0.44 | 25.15 | 91.36 | 1.12 | 1.11 | 1.13 |
| 30.50 | 2.90 | 3.48 | 0.58 | 24.99 | 91.47 | 1.12 | 1.11 | 1.13 |
| 32.50 | 2.86 | 3.54 | 0.68 | 24.88 | 91.58 | 1.12 | 1.12 | 1.14 |
| 34.50 | 2.84 | 3.57 | 0.73 | 24.83 | 91.68 | 1.13 | 1.12 | 1.14 |
| 36.50 | 2.84 | 3.59 | 0.75 | 24.85 | 91.78 | 1.13 | 1.12 | 1.14 |
| 38.50 | 2.85 | 3.58 | 0.74 | 24.92 | 91.88 | 1.13 | 1.12 | 1.14 |
| 39.50 | 2.85 | 3.59 | 0.73 | 24.99 | 91.95 | 1.13 | 1.12 | 1.14 |
| 40.00 | 2.86 | 3.58 | 0.72 | 25.02 | 91.93 | 1.13 | 1.12 | 1.14 |



electrical schematic



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