

Plug-In

Power Splitter/Combiner

MSC-2-5

2 Way-0° 50Ω 5 to 1500 MHz



CASE STYLE: A03
PRICE: \$29.20 ea. QTY. (1-9)

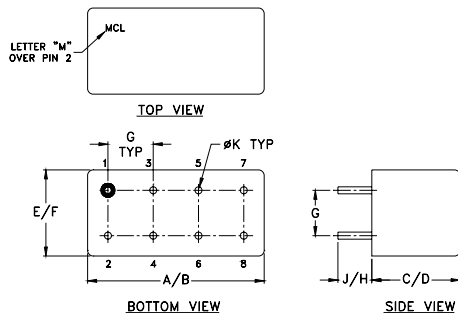
Maximum Ratings

| | |
|-----------------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 1W max. |
| Internal Dissipation | 0.125W max. |

Pin Connections

| | |
|-------------|-----------|
| SUMPORT | 1 |
| PORT 1 | 5 |
| PORT 2 | 6 |
| GROUND | 2,3,4,7,8 |
| CASE GROUND | 2,3,4,7,8 |

Outline Drawing



Outline Dimensions (inch/mm)

| | | | | | |
|-------|-------|------|-------|-------|------|
| A | B | C | D | E | F |
| .480 | .500 | .390 | .405 | .210 | .230 |
| 12.19 | 12.70 | 9.91 | 10.29 | 5.33 | 5.84 |
| G | H | J | K | wt | |
| .100 | .20 | .14 | .020 | grams | |
| 2.54 | 5.08 | 3.56 | 0.51 | 2.3 | |

Features

- wideband, 5 to 1500 MHz
- low insertion loss, 0.6 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- cellular
- instrumentation
- communications systems

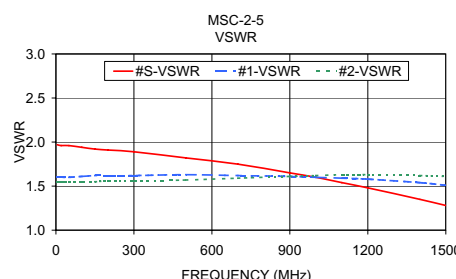
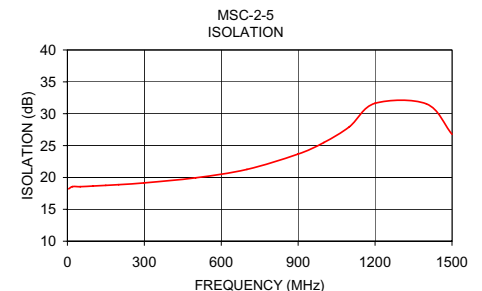
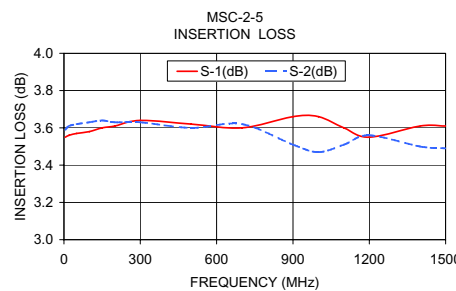
Splitter Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) | | | | | | INSERTION LOSS (dB) ABOVE 3.0 dB | | | | | | PHASE UNBALANCE (Degrees) | | | AMPLITUDE UNBALANCE (dB) | | |
|--------------------------------|----------------|-----|------|-----|------|-----|----------------------------------|------|------|------|------|------|---------------------------|------|------|--------------------------|------|------|
| | L | | M | | U | | L | | M | | U | | L | M | U | L | M | U |
| | Typ. | Min | Typ. | Min | Typ. | Min | Typ. | Max. | Typ. | Max. | Typ. | Max. | Max. | Max. | Max. | Max. | Max. | Max. |
| f _L -f _U | | | | | | | | | | | | | | | | | | |
| 5-1500 | 18 | 16 | 20 | 16 | 20 | 14 | 0.6 | 0.8 | 0.6 | 0.8 | 0.6 | 1.1 | 2.0 | 3.0 | 5.0 | 0.2 | 0.3 | 0.4 |

L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

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 | | | | | | |
| 5.00 | 3.55 | 3.59 | 0.04 | 18.22 | 0.04 | 1.97 | 1.60 | 1.55 |
| 20.00 | 3.56 | 3.61 | 0.05 | 18.57 | 0.01 | 1.96 | 1.60 | 1.55 |
| 50.00 | 3.57 | 3.62 | 0.05 | 18.55 | 0.05 | 1.96 | 1.60 | 1.55 |
| 100.00 | 3.58 | 3.63 | 0.05 | 18.65 | 0.09 | 1.94 | 1.61 | 1.55 |
| 150.00 | 3.60 | 3.64 | 0.04 | 18.76 | 0.24 | 1.92 | 1.62 | 1.55 |
| 200.00 | 3.61 | 3.63 | 0.02 | 18.87 | 0.06 | 1.91 | 1.62 | 1.56 |
| 300.00 | 3.64 | 3.63 | 0.01 | 19.15 | 0.05 | 1.89 | 1.62 | 1.56 |
| 500.00 | 3.62 | 3.60 | 0.03 | 19.95 | 0.79 | 1.82 | 1.63 | 1.57 |
| 700.00 | 3.60 | 3.62 | 0.02 | 21.26 | 0.95 | 1.75 | 1.62 | 1.59 |
| 900.00 | 3.66 | 3.51 | 0.16 | 23.67 | 0.64 | 1.65 | 1.61 | 1.61 |
| 1000.00 | 3.66 | 3.47 | 0.19 | 25.48 | 0.95 | 1.60 | 1.60 | 1.62 |
| 1100.00 | 3.60 | 3.51 | 0.09 | 27.96 | 1.18 | 1.54 | 1.59 | 1.63 |
| 1200.00 | 3.55 | 3.56 | 0.01 | 31.63 | 0.59 | 1.48 | 1.58 | 1.63 |
| 1400.00 | 3.61 | 3.50 | 0.11 | 31.54 | 0.20 | 1.35 | 1.54 | 1.62 |
| 1500.00 | 3.61 | 3.49 | 0.12 | 26.78 | 0.72 | 1.28 | 1.51 | 1.61 |



electrical schematic

