

Power Splitter/Combiner

HT-ADP-2-1+



2 Way-0° 50Ω 0.5 to 400 MHz

Features

- low insertion loss, 0.3 dB typ.
- excellent amplitude unbalance, 0.10 dB typ.
- very good phase unbalance, 0.5 deg. typ.
- aqueous washable

Applications

- instrumentation
- VHF/UHF

Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) | | INSERTION LOSS ABOVE 3.0 dB. | | PHASE UNBALANCE (Degrees) | | AMPLITUDE UNBALANCE (dB) | |
|-------------------|----------------|------|------------------------------|------|---------------------------|------|--------------------------|------|
| | Typ. | Min. | Typ. | Max. | Min. | Max. | Min. | Max. |
| 0.5-400 | 25 | 20 | 0.2 | 1.0 | 1.0 | 3.0 | 0.1 | 0.3 |

Typical Performance Data (TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

| Freq. (MHz) | Total Loss (dB) | | Amp. Unbal. (dB) | Isolation (dB) | Phase Unbal. (deg.) | VSWRS | | |
|-------------|-----------------|------|------------------|----------------|---------------------|-------|------|------|
| | S-1 | S-2 | | | | S | 1 | 2 |
| 0.5 | 3.13 | 3.13 | 0.00 | 30.12 | 0.03 | 1.06 | 1.08 | 1.08 |
| 10 | 3.13 | 3.13 | 0.00 | 34.46 | 0.05 | 1.03 | 1.01 | 1.01 |
| 30 | 3.16 | 3.16 | 0.00 | 33.18 | 0.04 | 1.03 | 1.01 | 1.01 |
| 60 | 3.18 | 3.19 | 0.01 | 31.23 | 0.04 | 1.04 | 1.01 | 1.01 |
| 90 | 3.21 | 3.21 | 0.00 | 29.53 | 0.11 | 1.05 | 1.01 | 1.01 |
| 120 | 3.21 | 3.22 | 0.01 | 28.15 | 0.07 | 1.06 | 1.02 | 1.02 |
| 160 | 3.26 | 3.25 | 0.01 | 26.67 | 0.12 | 1.08 | 1.02 | 1.02 |
| 200 | 3.28 | 3.27 | 0.01 | 25.63 | 0.08 | 1.09 | 1.03 | 1.03 |
| 240 | 3.29 | 3.27 | 0.01 | 24.87 | 0.14 | 1.09 | 1.04 | 1.04 |
| 280 | 3.34 | 3.35 | 0.00 | 24.45 | 0.19 | 1.09 | 1.05 | 1.05 |
| 320 | 3.33 | 3.32 | 0.00 | 24.36 | 0.26 | 1.08 | 1.07 | 1.07 |
| 340 | 3.37 | 3.37 | 0.01 | 24.50 | 0.29 | 1.07 | 1.08 | 1.08 |
| 360 | 3.38 | 3.37 | 0.00 | 24.69 | 0.24 | 1.07 | 1.09 | 1.09 |
| 380 | 3.42 | 3.42 | 0.00 | 24.97 | 0.28 | 1.05 | 1.10 | 1.10 |
| 400 | 3.41 | 3.41 | 0.00 | 25.39 | 0.37 | 1.04 | 1.11 | 1.12 |

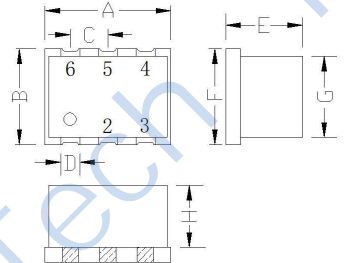
electrical schematic



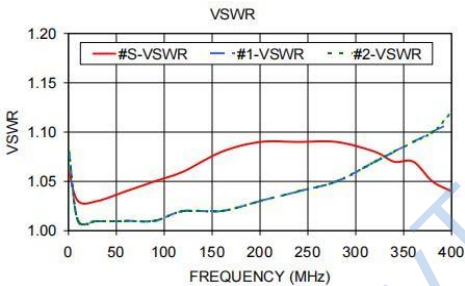
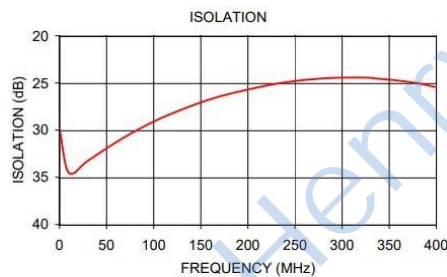
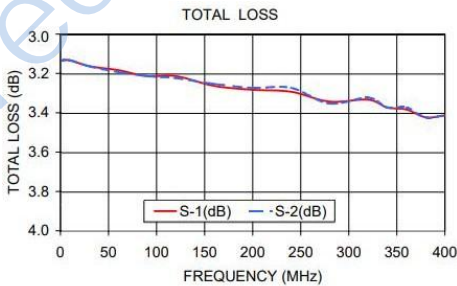
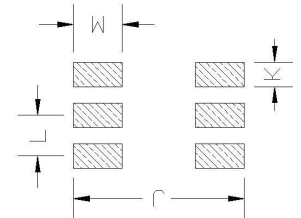
Pin Connections

| | |
|---------------------------------------|-----|
| SUM PORT | 1 |
| PORT 1 | 3 |
| PORT 2 | 4 |
| GROUND | 6 |
| Externally connect together & isolate | 2,5 |

Outline Drawing



PCB Land Pattern



Maximum Ratings

| | |
|-----------------------------|----------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 0.5W max. |
| Internal Dissipation | 0.125W max. |

Permanent damage may occur if any of these limits are exceeded.

Outline Dimensions, Unit (mm)

| | | | |
|----|------|---|------|
| A | 8.70 | J | 8.00 |
| B | 6.50 | K | 1.50 |
| C | 2.54 | G | 5.50 |
| D | 1.30 | H | 4.30 |
| E | 5.40 | L | 2.54 |
| F | 6.50 | M | 2.00 |
| WT | 0.5g | | |

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