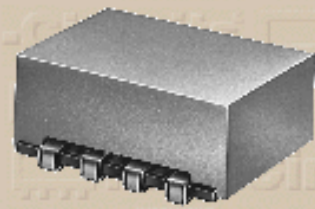


Directional Coupler

JYDC-ED11474/1



| Frequency MHz | Coupling dB | | Mainline Loss dB | | | Directivity dB | | | VSWR (:1) | Power INPUT, W | | |
|---------------|-------------|------|------------------|-------------|-------------|----------------|-------------|-------------|-----------|----------------|------|--------|
| | $f_L - f_U$ | Nom. | Flatness | L Typ. Max. | M Typ. Max. | U Typ. Max. | L Typ. Min. | M Typ. Min. | | U Typ. Min. | Typ. | L Max. |
| 30-450 | 7.00±0.50 | ±0.5 | | 1.40 | | | 28 | | 1.30 | | | |

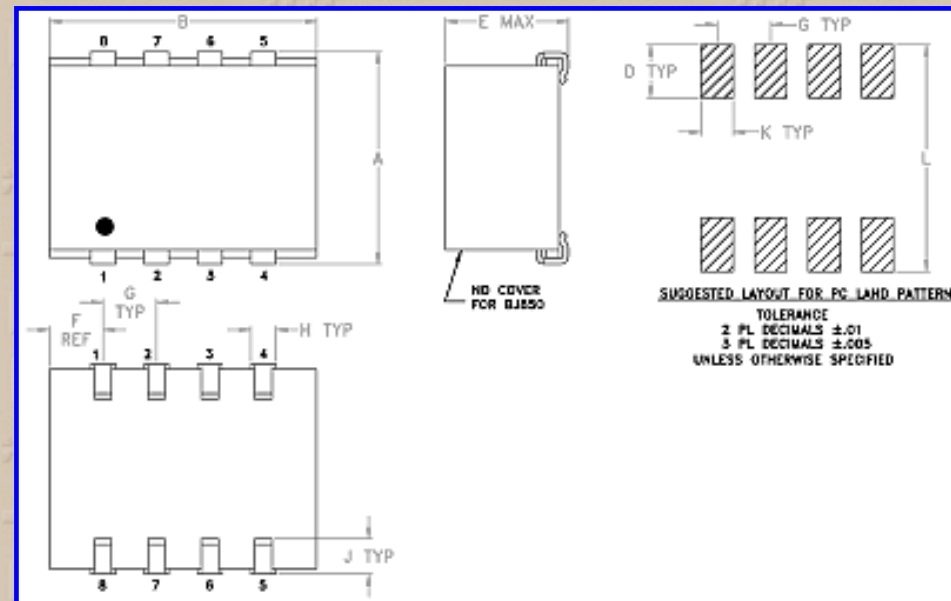
L=low range(f_L to $10f_L$) M=mid range($10f_L$ to $f_U/2$) U=upper range($f_U/2$ to f_U)

Pin Connections

| Port | Input | Output | Coupled (forward) | Coupled (reverse) |
|----------|----------------------|--------|-------------------|-------------------|
| 2e | 1 | 8 | 3 | |
| Not Used | Case GND Termination | GND | | |
| 4,5 | | 6 | 2,7 | |

Notes:

- For Surface Mount Environmental Specifications, please click [here](#).
Re-flow soldering information is available in "[Surface Mount](#)" article.
- Non-catalog model. Please consult factory for price and delivery.
- Pin 6 must be connected to 50 Ohm termination.
- General Quality Control Procedures and Environmental Specifications are given in [Mini-Circuits Guarantees Quality](#).
- Hi-Rel, MIL description are given in [Hi-Rel and MIL](#).
- Prices and Specifications subjects to change without notice.



Case Style - BJ293 (inch,mm) weight: 0.8 grams.

| A | B | C | D | E | F | G | H | J |
|--------|--------|---|-------|-------|-------|-------|-------|-------|
| .395 | .500 | | .100 | .230 | .100 | .100 | .047 | .065 |
| 10.033 | 12.700 | | 2.540 | 5.842 | 2.540 | 2.540 | 1.194 | 1.651 |
| K | L | M | N | P | Q | R | S | T |
| .065 | .425 | | | | | | | |
| 1.651 | 10.795 | | | | | | | |

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

Material and Finish:

Case material: plastic or copper-nickel alloy, Glass Epoxy Laminate or ceramic base.

Termination finish: tin-lead plate or tin plate.

Packaging:

| FREQ (MHz) | I. Loss (dB) In-Out | Coupling (dB) In-CPL | Directivity (dB) | Return Loss (dB) | | |
|------------|---------------------|----------------------|------------------|------------------|-------|-------|
| | | | | In | Out | CPL |
| 30.00 | 1.12 | 7.23 | 25.51 | 20.54 | 17.31 | 17.06 |
| 50.00 | 1.21 | 7.31 | 32.09 | 21.28 | 19.11 | 17.86 |
| 70.00 | 1.25 | 7.35 | 34.38 | 21.31 | 19.53 | 17.92 |
| 90.00 | 1.28 | 7.37 | 34.85 | 21.23 | 19.54 | 17.95 |
| 100.00 | 1.29 | 7.38 | 34.82 | 21.17 | 19.48 | 17.96 |
| 110.00 | 1.29 | 7.40 | 34.73 | 21.12 | 19.42 | 17.97 |
| 120.00 | 1.30 | 7.41 | 34.71 | 21.11 | 19.38 | 17.96 |
| 120.70 | 1.30 | 7.41 | 34.69 | 21.11 | 19.38 | 17.96 |
| 120.98 | 1.30 | 7.41 | 34.71 | 21.11 | 19.37 | 17.96 |
| 121.00 | 1.30 | 7.41 | 34.68 | 21.12 | 19.37 | 17.96 |
| 121.03 | 1.30 | 7.41 | 34.71 | 21.12 | 19.37 | 17.96 |
| 121.05 | 1.30 | 7.41 | 34.73 | 21.11 | 19.37 | 17.96 |
| 125.00 | 1.31 | 7.41 | 34.67 | 21.11 | 19.36 | 17.96 |
| 130.00 | 1.31 | 7.42 | 34.50 | 21.10 | 19.33 | 17.95 |
| 150.00 | 1.32 | 7.43 | 33.74 | 20.95 | 19.17 | 17.94 |
| 200.00 | 1.35 | 7.46 | 31.16 | 20.49 | 18.65 | 17.84 |
| 220.00 | 1.37 | 7.47 | 30.11 | 20.23 | 18.42 | 17.74 |
| 240.00 | 1.38 | 7.48 | 28.97 | 20.00 | 18.13 | 17.62 |

UNIT ORIENTATION

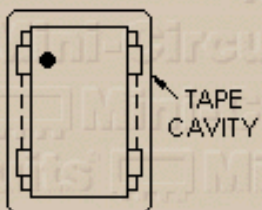
Packaging information:

Tape Width(mm): 24

Reel Size(inches): 13

Device Cavity Pitch(mm): 16

Devices Per Reel: 500

DIRECTION
OF FEED →

| | | | | | | |
|--------|------|------|-------|-------|-------|-------|
| 242.70 | 1.38 | 7.48 | 28.82 | 19.97 | 18.10 | 17.60 |
| 242.98 | 1.38 | 7.48 | 28.80 | 19.96 | 18.09 | 17.60 |
| 243.00 | 1.38 | 7.48 | 28.79 | 19.97 | 18.09 | 17.60 |
| 243.03 | 1.38 | 7.48 | 28.79 | 19.97 | 18.09 | 17.60 |
| 243.05 | 1.38 | 7.48 | 28.80 | 19.97 | 18.09 | 17.60 |
| 245.00 | 1.38 | 7.48 | 28.70 | 19.94 | 18.07 | 17.59 |
| 300.00 | 1.41 | 7.49 | 26.29 | 19.61 | 17.54 | 17.28 |
| 350.00 | 1.45 | 7.49 | 24.59 | 19.29 | 17.13 | 17.04 |
| 400.00 | 1.48 | 7.48 | 23.01 | 18.99 | 16.74 | 16.87 |
| 425.00 | 1.50 | 7.47 | 22.27 | 18.82 | 16.56 | 16.76 |
| 450.00 | 1.52 | 7.47 | 21.50 | 18.66 | 16.36 | 16.64 |

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