

Coaxial

# Power Splitter/Combiner

2 Way-0° 50Ω 5800 to 6400 MHz

**IZY2PD-64+**  
**IZY2PD-64**



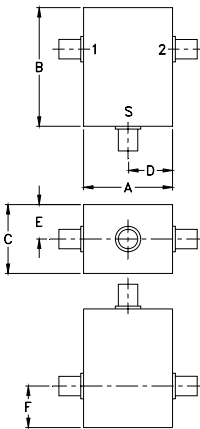
## Maximum Ratings

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

## Coaxial Connections

|          |   |
|----------|---|
| SUM PORT | S |
| PORT 1   | 1 |
| PORT 2   | 2 |

## Outline Drawing



## Outline Dimensions (inch/mm)

| A     | B     | C     | D    | E    | F    | wt    |
|-------|-------|-------|------|------|------|-------|
| .75   | 1.00  | .58   | .38  | .29  | .35  | grams |
| 19.05 | 25.40 | 14.73 | 9.65 | 7.37 | 8.89 | 22.0  |

## Features

- low insertion loss, 0.2 dB typ.
- high isolation, 35 dB typ.
- excellent input VSWR, 1.05:1 typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- rugged shielded case

## Applications

- SHF
- amateur radio
- communication systems

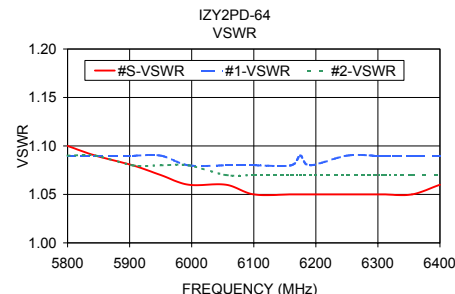
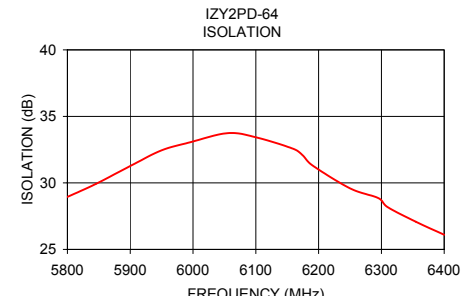
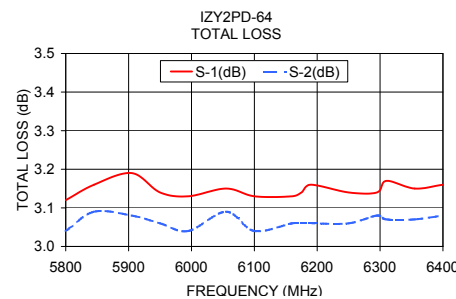
## Electrical Specifications

| FREQ.<br>RANGE<br>(MHz) | ISOLATION<br>(dB) |      | INSERTION LOSS<br>(dB)<br>ABOVE 3.0 dB |      | PHASE<br>UNBALANCE<br>(Degrees) | AMPLITUDE<br>UNBALANCE<br>(dB) | VSWR<br>(:1) |      |      |      |
|-------------------------|-------------------|------|----------------------------------------|------|---------------------------------|--------------------------------|--------------|------|------|------|
|                         | Typ.              | Min. | Typ.                                   | Max. | Max.                            | Max.                           | S            |      | OUT  |      |
| $f_L$ - $f_U$           |                   |      |                                        |      |                                 |                                | Typ.         | Max. | Typ. | Max. |
| 5800-6400               | 35                | 24   | 0.2                                    | 0.5  | 5                               | 0.3                            | 1.05         | 1.3  | 1.2  | 1.35 |

## Typical Performance Data

| Frequency<br>(MHz) | Total Loss <sup>1</sup><br>(dB) |      | Amplitude<br>Unbalance<br>(dB) | Isolation<br>(dB) | Phase<br>Unbalance<br>(deg.) | VSWR<br>S | VSWR<br>1 | VSWR<br>2 |
|--------------------|---------------------------------|------|--------------------------------|-------------------|------------------------------|-----------|-----------|-----------|
|                    | S-1                             | S-2  |                                |                   |                              |           |           |           |
| 5800.00            | 3.12                            | 3.04 | 0.08                           | 28.95             | 0.70                         | 1.10      | 1.09      | 1.09      |
| 5845.00            | 3.16                            | 3.09 | 0.07                           | 29.92             | 0.49                         | 1.09      | 1.09      | 1.09      |
| 5905.00            | 3.19                            | 3.08 | 0.11                           | 31.39             | 0.51                         | 1.08      | 1.09      | 1.08      |
| 5950.00            | 3.14                            | 3.06 | 0.08                           | 32.45             | 0.62                         | 1.07      | 1.09      | 1.08      |
| 5995.00            | 3.13                            | 3.04 | 0.09                           | 33.05             | 0.54                         | 1.06      | 1.08      | 1.08      |
| 6055.00            | 3.15                            | 3.09 | 0.06                           | 33.74             | 0.53                         | 1.06      | 1.08      | 1.07      |
| 6100.00            | 3.13                            | 3.04 | 0.09                           | 33.43             | 0.71                         | 1.05      | 1.08      | 1.07      |
| 6160.00            | 3.13                            | 3.06 | 0.08                           | 32.56             | 0.57                         | 1.05      | 1.08      | 1.07      |
| 6175.00            | 3.14                            | 3.06 | 0.08                           | 32.06             | 0.64                         | 1.05      | 1.09      | 1.07      |
| 6190.00            | 3.16                            | 3.06 | 0.10                           | 31.32             | 0.41                         | 1.05      | 1.08      | 1.07      |
| 6250.00            | 3.14                            | 3.06 | 0.08                           | 29.59             | 0.41                         | 1.05      | 1.09      | 1.07      |
| 6295.00            | 3.14                            | 3.08 | 0.06                           | 28.86             | 0.29                         | 1.05      | 1.09      | 1.07      |
| 6310.00            | 3.17                            | 3.07 | 0.10                           | 28.18             | 0.74                         | 1.05      | 1.09      | 1.07      |
| 6355.00            | 3.15                            | 3.07 | 0.08                           | 27.08             | 0.66                         | 1.05      | 1.09      | 1.07      |
| 6400.00            | 3.16                            | 3.08 | 0.08                           | 26.10             | 0.64                         | 1.06      | 1.09      | 1.07      |

1. Total Loss = Insertion Loss + 3dB splitter loss.



## electrical schematic



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100602