

### ■ Features

- Broadband Frequency (0.600 - 3.800 GHz)
- Low Insertion Loss (0.4 dB typ)
- High Port-to-Port Isolation (30 dB typ)
- Excellent VSWR (1.10 : 1 typ)
- RoHS Compliant Splitter Construction
- Tri Alloy Type N Female (Jack) Low PIM

### ■ Applications

- Amplifier sharing
- Receiver combining
- Antenna splitting
- PCS, GSM, LTE, CELLULAR
- UMTS, LBAND, GPS, TETRA, RFID
- ISM, WiFi, 5G, IoT, V2X, URLLC

### ■ Ratings

- Operating Temp: -65C to +85C
- Power Input: 40W as splitter
- Internal Dissipation: 2 Watts
- Current Input: 4A DC current
- IP68 Protection Rating

### Electrical Specifications

| Description                 | Min | Typ  | Max    | Units   |
|-----------------------------|-----|------|--------|---------|
| Frequency Range             | 600 |      | 3800   | MHz     |
| Impedance                   |     | 50   |        | Ohms    |
| Insertion Loss (3.01 Split) |     |      | 0.9    | dB      |
| 22 KHz Tone:                |     |      | 1.4    |         |
| 10 MHz BUC:                 |     |      | 1.4    |         |
| Amplitude Balance           | 0.0 | 0.15 | 0.3    | dB      |
| Phase Balance               | 0.0 | 2    | 4      | Degrees |
| Isolation                   | 18  | 30   | 50     | dB      |
| Input VSWR                  |     | 0    | 1.40:1 |         |
| Output VSWR                 |     | 0    | 1.25:1 |         |
| DC Voltage                  |     | 500  | 500    | VDC     |
| DC Current                  |     |      | 4      | A       |

### RF Specifications

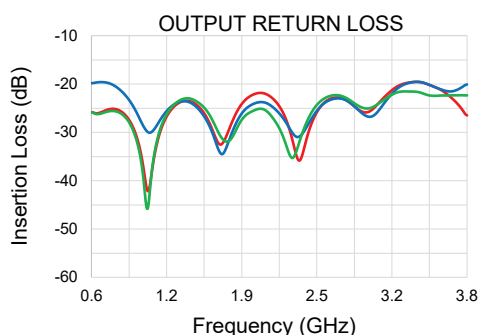
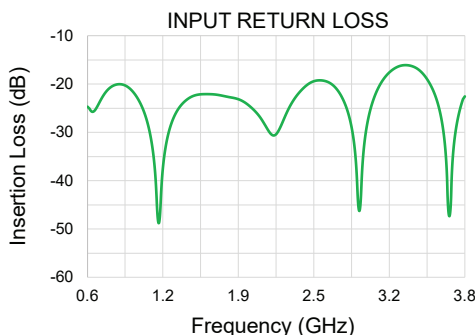
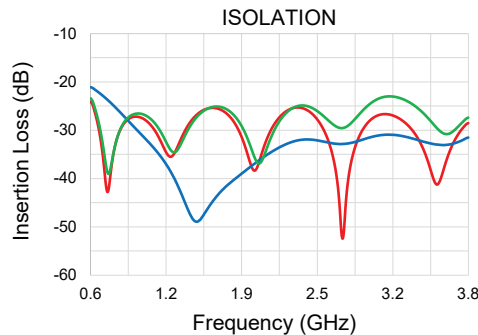
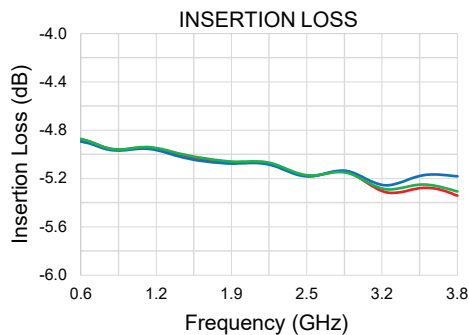
| RF Input Power Rating (Power Divider Splitter) |          |                  |
|------------------------------------------------|----------|------------------|
| Into Matched Load VSWR's                       | In-Phase | 180 Out-Of-Phase |
| 1.2:1                                          | 40 Watts | 40 Watts         |
| 2.0:1                                          | 40 Watts | 20 Watts         |
| Infinite                                       | 20 Watts | 2 Watts          |

### Mechanical Specifications

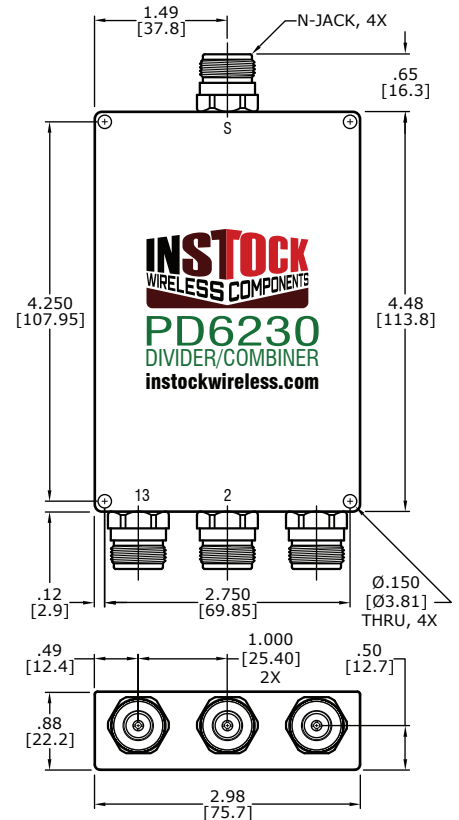
| Item              | Description                                          |
|-------------------|------------------------------------------------------|
| Connectors        | TYPE-N Female (Jack), 50Ω                            |
| Connector Body    | Brass, Tri-Alloy Plate                               |
| Connector Pin     | Phosphor Bronze, Gold Plate                          |
| Insulator         | PTFE, Virgin Electrical Grade                        |
| Housing           | Aluminum, Clear Chem Conversion Film, ROHS Compliant |
| Solder            | Lead Free, ROHS Compliant                            |
| Protection Rating | IP51                                                 |
| Operating Temp    | -65C To +85C                                         |
| Weight            | 506 Grams                                            |
| MTBF              | Consult Factory                                      |

| RF Input Power Rating (Power Combiner) |                |
|----------------------------------------|----------------|
| Non-Coherent Signals                   | 3 X 1.33 Watts |
| Coherent Signals (In-Phase)            | 3 X 13.3 Watts |
| Coherent Signals (180 Out-Of-Phase)    | 3 X 0.66 Watts |
| Other Conditions - Consult Factory     |                |

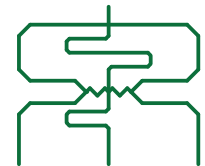
### Test Data



### Outline Drawing



### Schematic



DC, 22 KHz, 10 MHz & 600-3800 MHz Pass All Ports

### Available in Other Arrangements

| Connector | Model  |
|-----------|--------|
| SMA       | PD6330 |
| QMA       | TBA    |
| TNC       | TBA    |
| BNC       | TBA    |