

Wideband Power Divider 8-way BNC Female 700 MHz to 4 GHz

## 8-way BNC Power Divider 700 MHz to 4 GHz

### Product Description

AmpliTech offers a wide selection of High-Quality RF power dividers, featuring Wilkinson design. Model APTPD-8-00700400-BNC is an 8-way in-line power divider that operates from 700 MHz to 4 GHz. The unique circuit structure ensures a smooth roll-down beyond 4 GHz to account for frequency drifting near the band edge. Aluminum enclosure measures 7.3" x 4.35" deep x 0.75" high, allowing two units to be placed side-by-side in a 19" rack.

| Specifications                 | Min | Typ | Max | Min     |
|--------------------------------|-----|-----|-----|---------|
| Frequency                      | 0.7 |     | 18  | GHz     |
| Impedance                      |     | 50  |     | Ohm     |
| Return Loss (Port S)           | 12  | 15  |     | dB      |
| Return Loss (Port 1-8)         | 14  | 20  |     | dB      |
| Insertion Loss (Above 9.03 dB) |     | 1.5 | 2.0 | dB      |
| Isolation                      | 17  | 22  |     | dB      |
| Amplitude Balance              |     | 0.3 | 0.8 | dB      |
| Phase Balance                  |     | 6   | 12  | Degrees |
| Input Power (CW) <sup>1</sup>  |     |     | 30  | Watts   |

### Mechanical

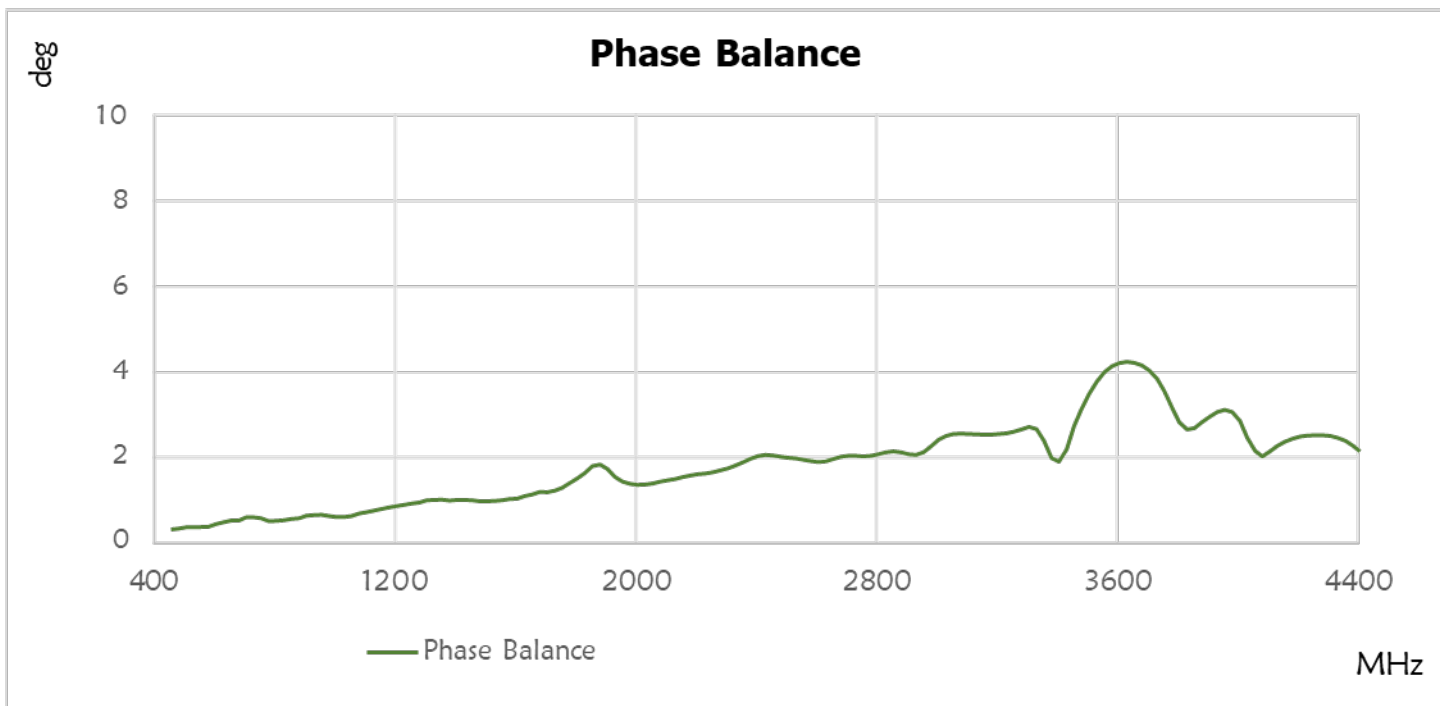
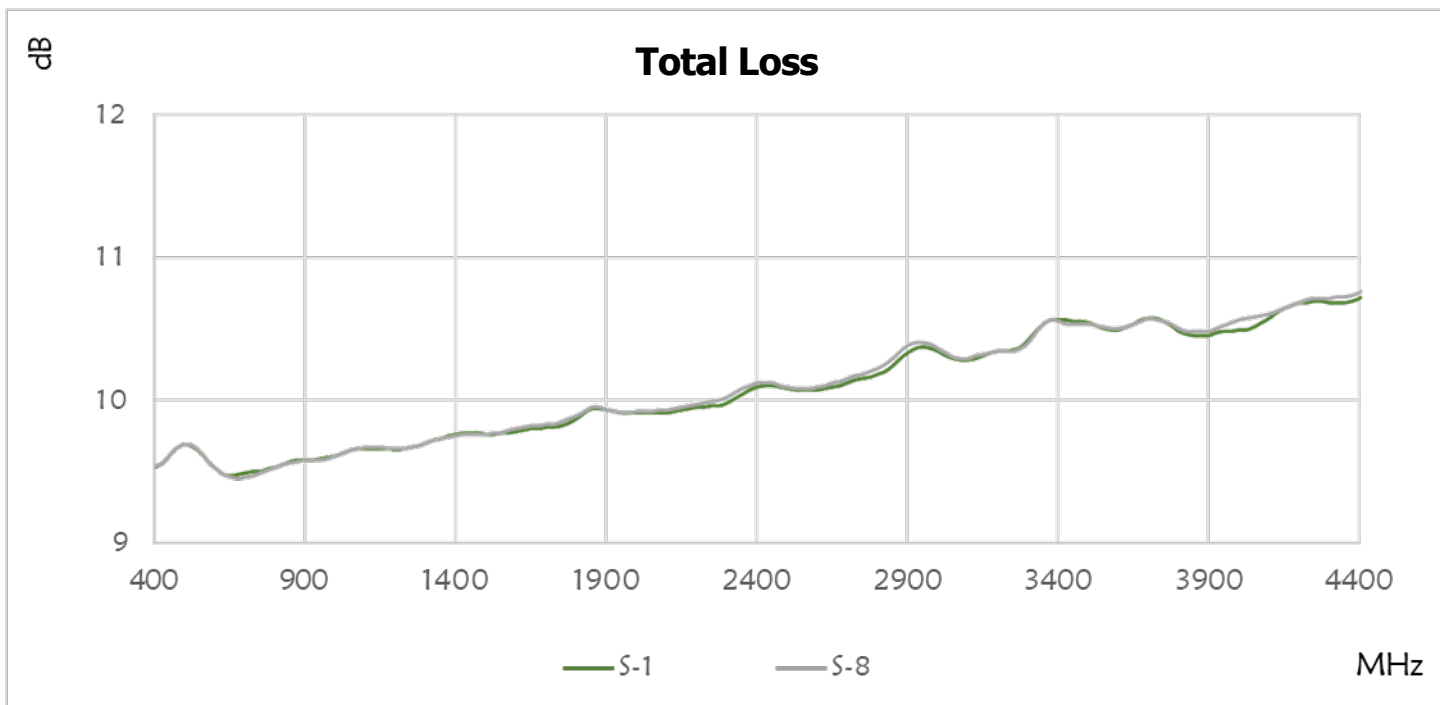
|                                    |                       |
|------------------------------------|-----------------------|
| Connector Interface                | BNC-Female            |
| Operating Temperature <sup>2</sup> | -55 to +85 °C         |
| Storage Temperature                | -55 to +100 °C        |
| Weight Estimate                    | 13 oz (370 g)         |
| Humidity                           | 10-90% non-condensing |
| Environment                        | Indoors Use Only      |

### Materials

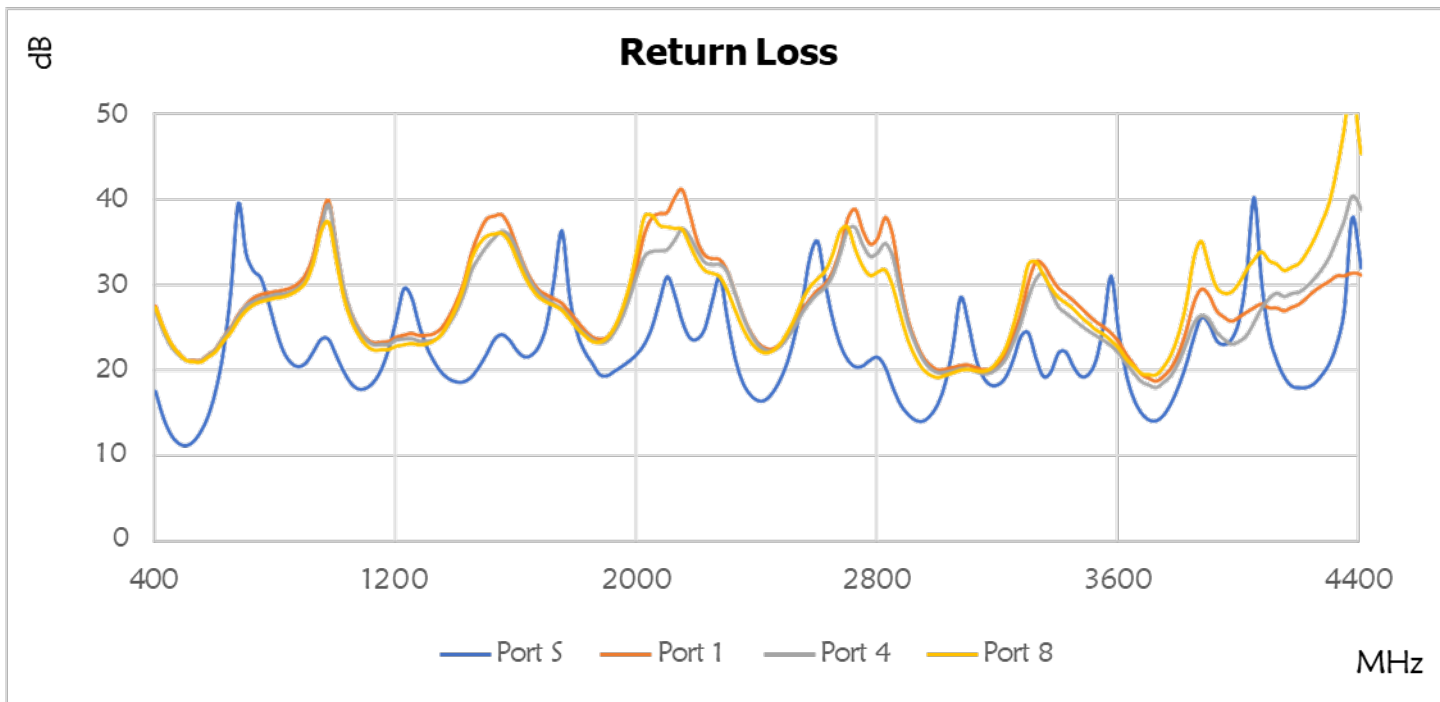
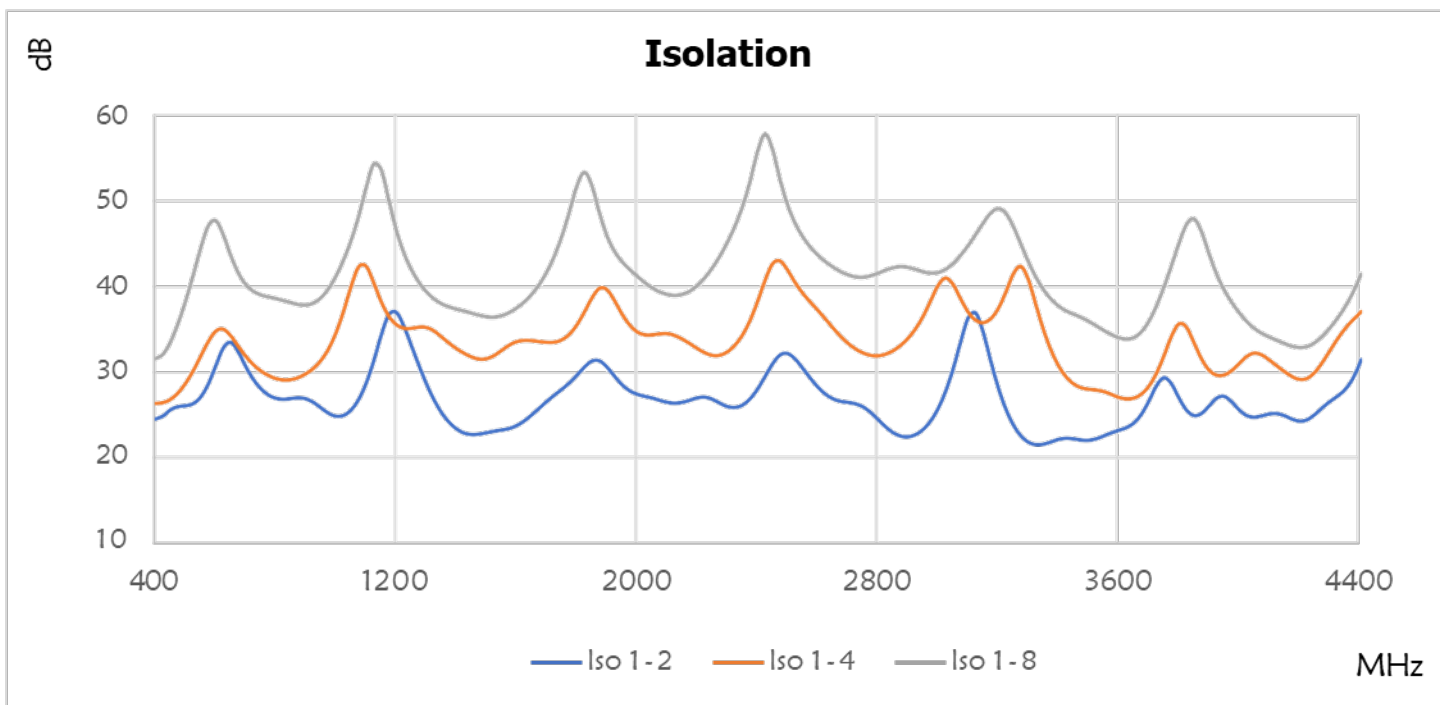
|                                    |                          |
|------------------------------------|--------------------------|
| RoHS /REACH Compliant <sup>3</sup> | Yes                      |
| Enclosure                          | Aluminum                 |
| Connectors                         | Brass, Tri-Alloy Plating |
| Contacts                           | Be Cu, Gold Plated       |
| Insulators                         | PTFE                     |
| Finish                             | Clear Chem Film          |

1. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
2. Electrical specifications at +25 °C only.
3. To the best of our knowledge at the time of publication.
4. Non-RoHS solder is available upon request.

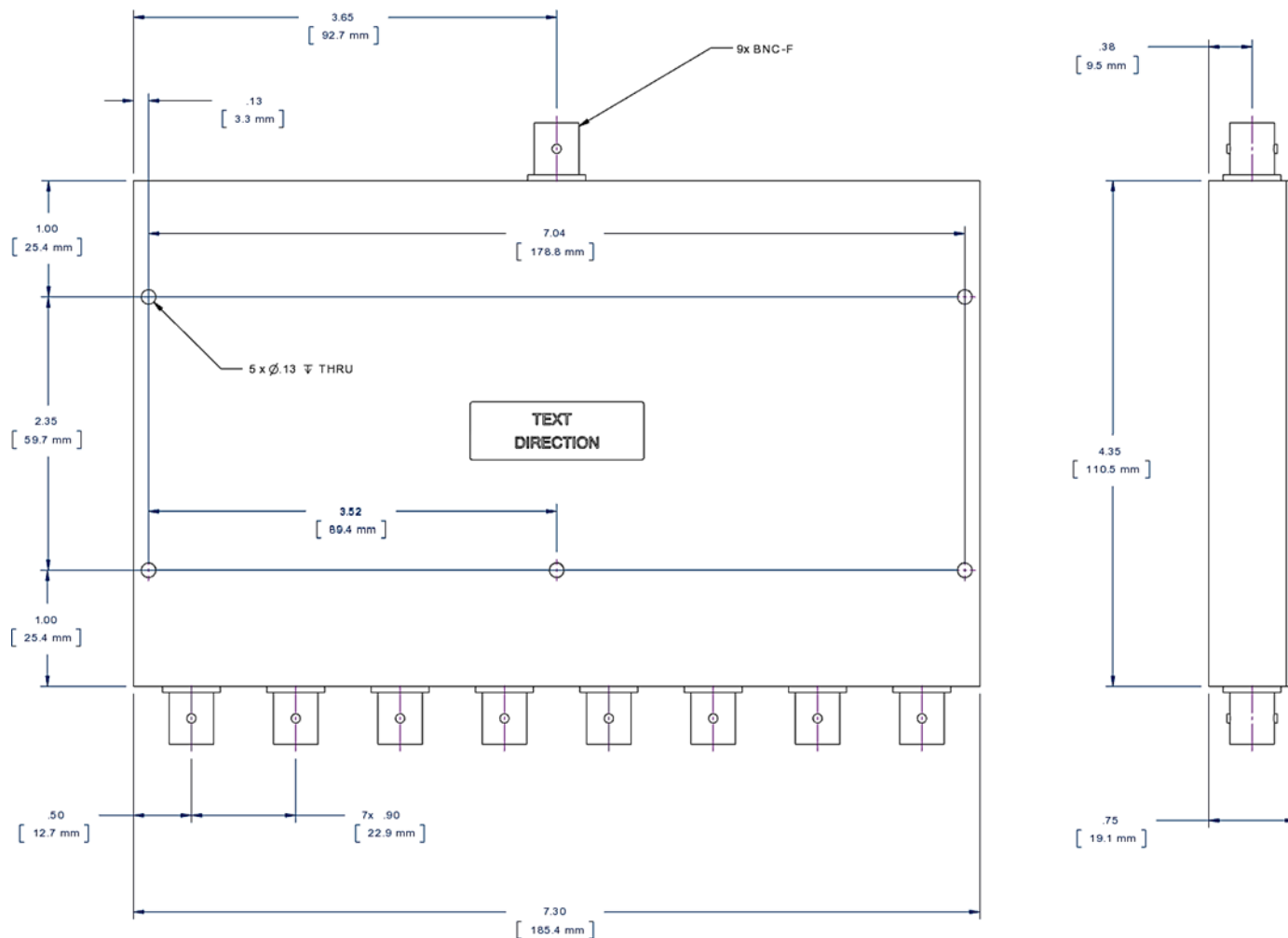
**Typical Performance at +25 °C**



**Typical Performance at +25 °C**



## Outline Dimensions



Dimensions are in inches, [mm] shown for convenience.  
Tolerances on 2-pl decimals:  $\pm .03$ . 3-pl decimals:  $\pm .015$ .