



# Model Number S6118

## Space Qualified

### 3 dB 90° Hybrid Coupler

Rev. E  
06/13/12

#### Features:

- Stripline Design
- Space Qualified
- Low Loss
- Vented

#### Applications:

- Booster / Space
- High Reliability

#### Package size:

- 0.50" x 0.66" x 1.16"
- (Please see outline for exact dimensions)

#### Weight:

- 1.5 oz., 0.09 lb.



| Specifications:       |  |
|-----------------------|--|
| Passband              | 2000 to 2400 MHz   |
| Insertion Loss        | 0.3 dB Maximum*  |
| VSWR                  | 1.25:1 maximum   |
| Amplitude Balance     | 0.5 dB Peak-to-Peak  |
| Phase Balance         | 90° ± 2°   |
| Isolation             | 20 dB Minimum  |
| Power Handling        | 20 Watts CW through critical pressure to 1x10 <sup>-8</sup> Torr with >6 dB margin (100 watt design)                     |
| Outgassing            | < 0.1% CVCM and < 1% TML   |
| Connectors            | SMA Female per MIL-C-39012   |
| Operating Temperature | -65° to +85° C   |
| Screening             | Per MIL-DTL-23971C<br>Screened in lots of 50<br>Group A and Group B testing<br>per "Space Flight Application" guidelines |

\* Measured per MIL-DTL-23971C Paragraph 4.7.5



## Delta Microwave

300 Del Norte Blvd.  
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Written By    Approved By

Delta Microwave reserves the right to change specifications without notice. Please verify specification revision letter upon order placement.



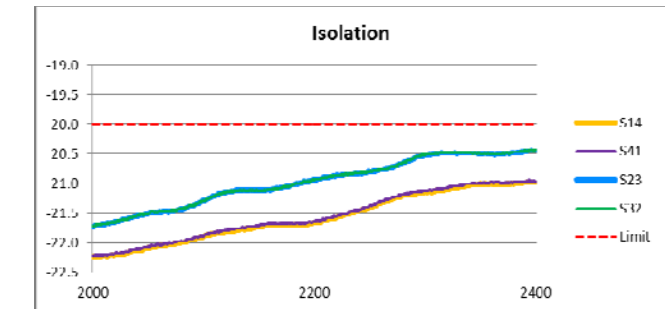
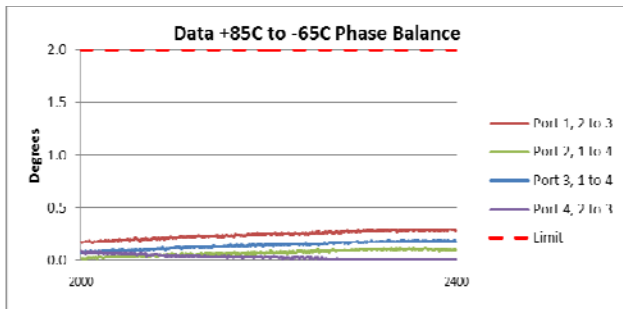
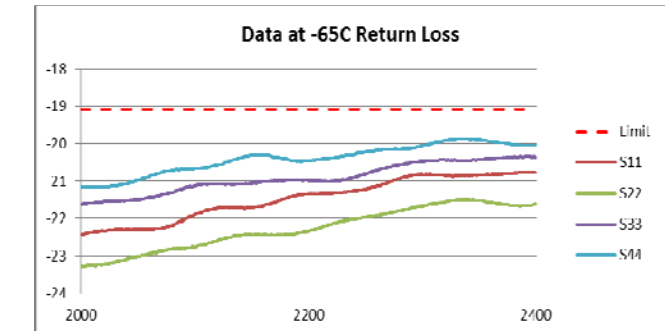
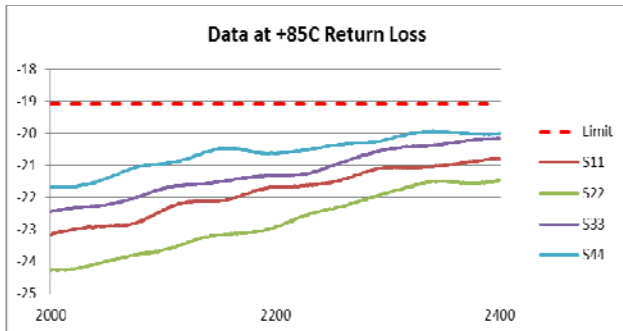
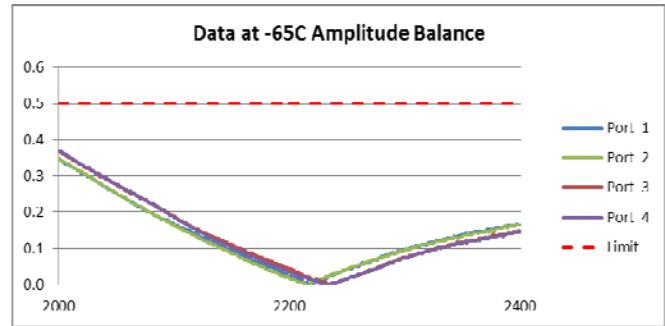
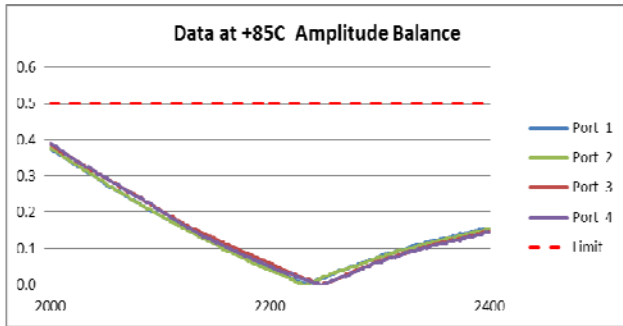
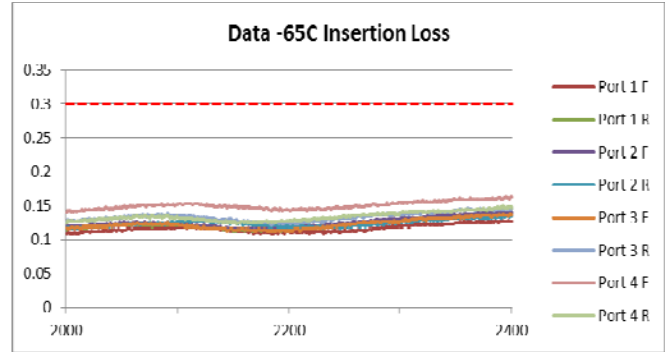
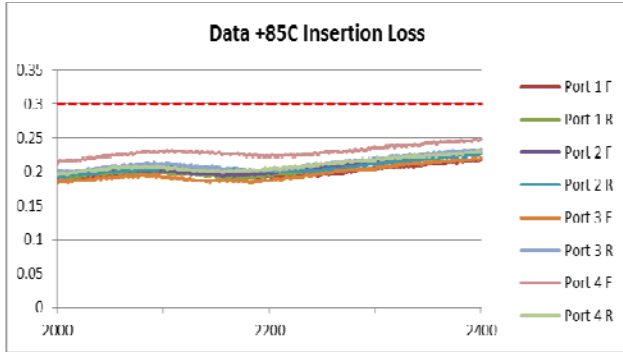
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#### Measured Data



S-Parameter Files Available



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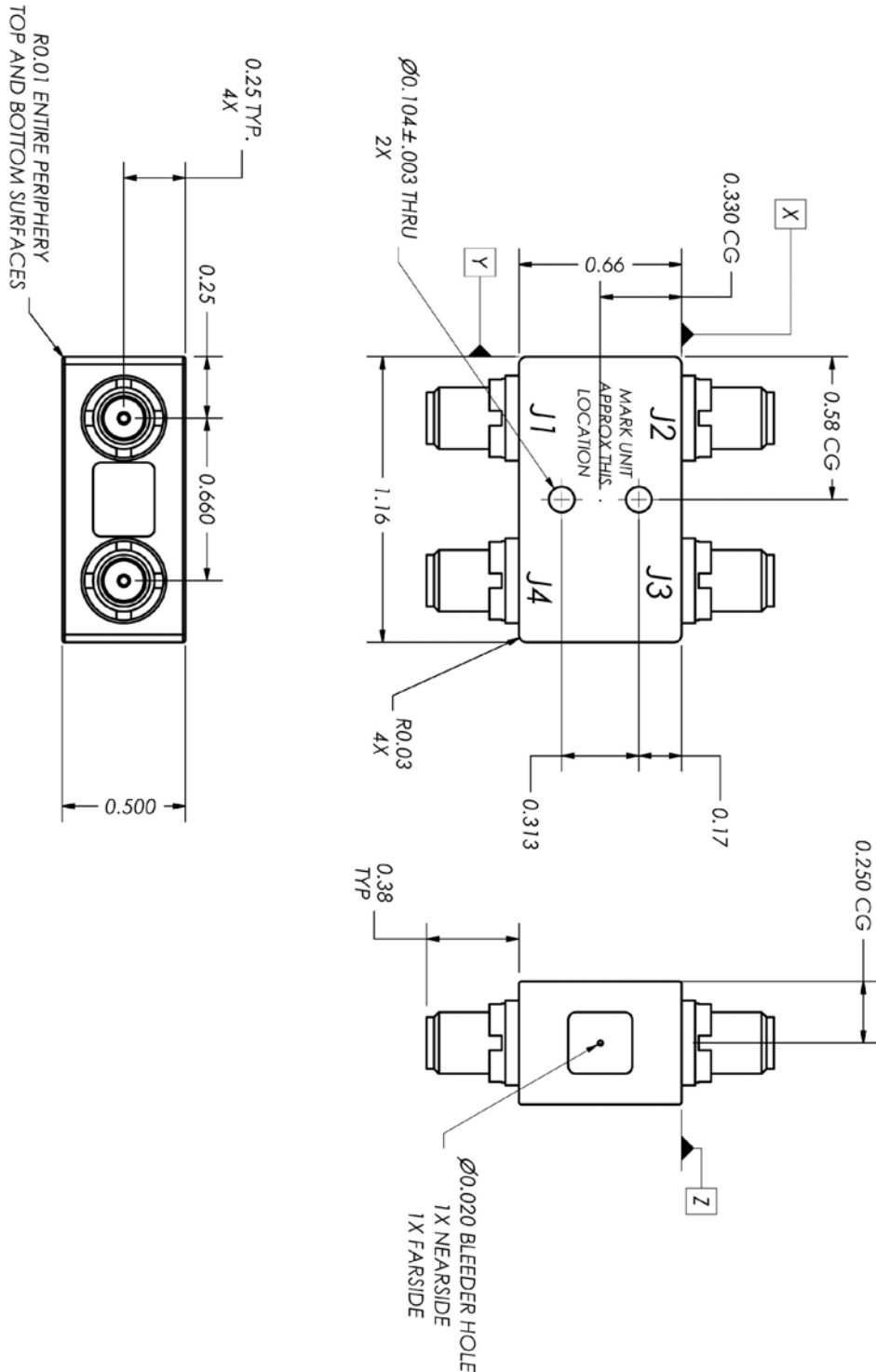
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