

PRELIMINARY

3500 MHz Balun / Filter Combination

P/N 3500FB16A0100

Detail Specification: 07/10/06

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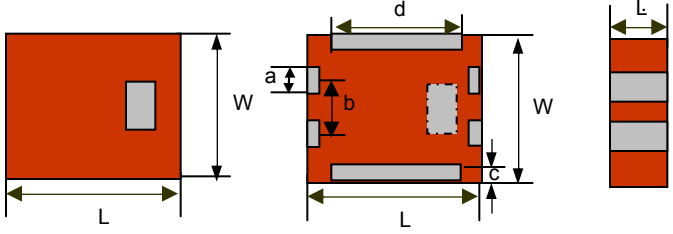
General Specifications

| | |
|-----------------------------|---------------|
| Part Number | 3500FB16A0100 |
| Frequency (MHz) | 3400-3600 |
| Unbalanced Impedance | 50 Ω |
| Balanced Impedance | 100 Ω |
| Insertion Loss | 2.7 dB max. |
| Return Loss | 9.5 dB min. |
| Phase Difference | 180° \pm 10 |
| Amplitude Difference | 1.0 dB max. |

| | |
|------------------------------------|-------------------------|
| Attenuation (dB) | 35 min. @660 ~ 720MHz |
| | 38 min. @1980 ~ 2160MHz |
| | 30min. @2640 ~ 2880MHz |
| | 17 min. @4620 ~ 5040MHz |
| | 27 min. @7250 ~ 7920MHz |
| Operating and Storage Temp. | -40 to +85°C |
| Reel Quantity | 4,000 |
| Power Capacity | 0.5 watt max. |

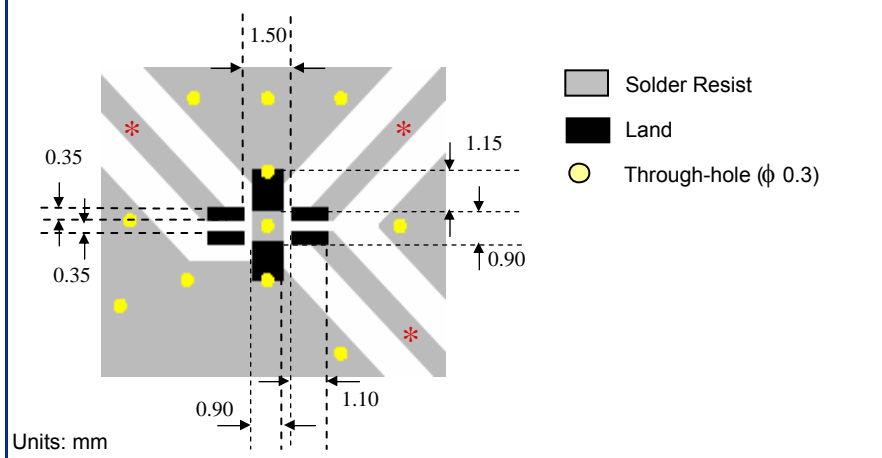
Mechanical Dimensions

| | In | mm |
|----------|-------------------|-----------------|
| L | 0.079 \pm 0.006 | 2.00 \pm 0.15 |
| W | 0.059 \pm 0.006 | 1.50 \pm 0.15 |
| T | 0.035 \pm 0.004 | 0.90 \pm 0.10 |
| a | 0.012 \pm 0.004 | 0.30 \pm 0.10 |
| b | 0.028 \pm 0.006 | 0.70 \pm 0.15 |
| c | 0.010 \pm 0.006 | 0.25 \pm 0.15 |
| d | 0.031 \pm 0.006 | 0.80 \pm 0.15 |



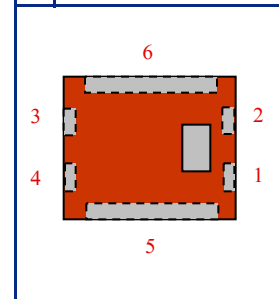
Mounting Considerations

* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.



Terminal Configuration

| No. | Function |
|-----|-----------------|
| 1 | Unbalanced Port |
| 2 | NC |
| 3 | Balanced Port |
| 4 | Balanced Port |
| 5 | GND |
| 6 | GND |



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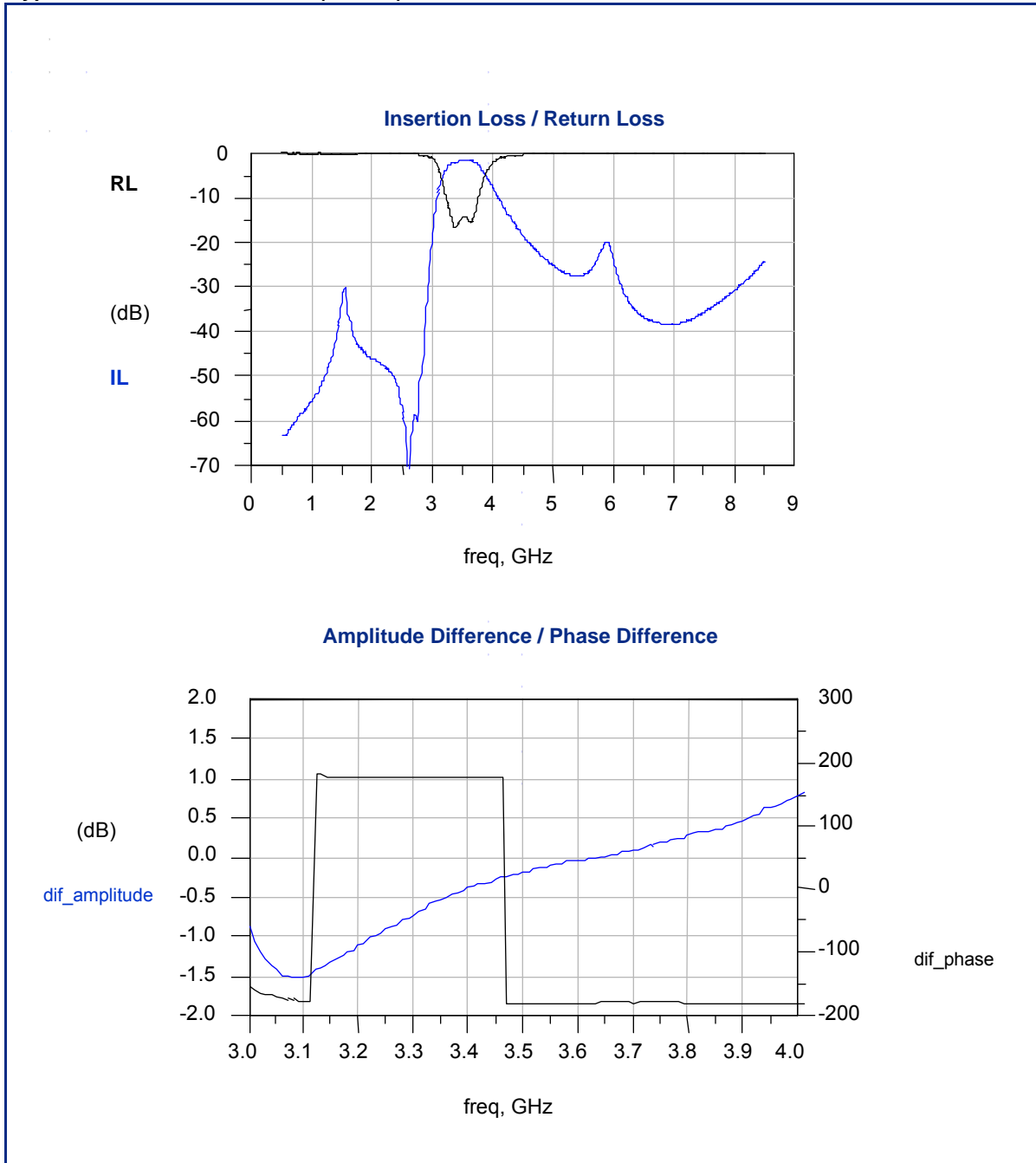
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Typical Electrical Performance (T=25°C)



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