

"High Frequency Ceramic Solutions"

Preliminary

2.45 / 5.5GHz WLAN Ceramic Diplexer (BPF/BPF type).

P/N 2450DP15M5500

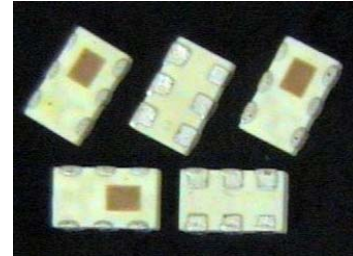
LGA bottom terminations

Detail Specification: 8/2/2012

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General Specifications

| Part Number | | 2450DP15M5500 | | |
|------------------------------------|-----------------|---------------|-----------------|--|
| Operating Temperature Range | | -40 ~ +85 °C | | |
| Frequency | Insertion Loss | Passband VSWR | Return Loss Min | Attenuation (db) |
| 2400~2500 | 2.4 max. @ 25°C | 2.0 max. | -9.54 | 28 min. @ 824~915MHz |
| | | | | 28 min. @ 1545~1610MHz |
| | | | | 24 min. @ 1710~1990MHz |
| | | | | 18 min. @ 2110~2170MHz |
| | | | | 27 min. @ 4800~5000MHz |
| 5150~5850 | 1.2 max. @ 25°C | 2.0 max. | -9.54 | 20 min. @ 7200~7500MHz |
| | | | | 25 min. @ 1545~1610MHz |
| | | | | 25 min. @ 2400~2500MHz 25 min. @ 10300~11700MHz |



| | |
|--|---------------------------------------|
| Recommended Storage Conditions* | +5 to +35 °C, Humidity 45~75%RH |
| Reel Quantity | 4,000 |
| Storage Period | 18 months max. |
| Power Capacity | 1W max. |

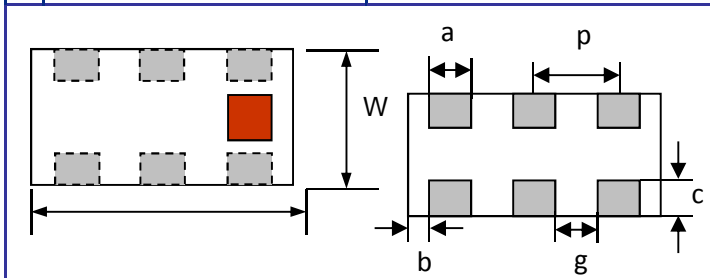
*18 months in vacuum sealed bag and 1 week cumulative after opened.

Part Number Explanation

| P/N Suffix | Packing Style | Bulk | Suffix = S | eg. 2450DP15M5500S |
|------------|-------------------|---------------------|---------------|---------------------------|
| | | T & R (3000pcs) | Suffix = E | eg. 2450DP15M5500E |
| | Termination style | 100% Tin | Suffix = None | eg. 2450DP15M5500(E or S) |
| | Evaluation Board | 2450DP15M5500-EBSMA | | |

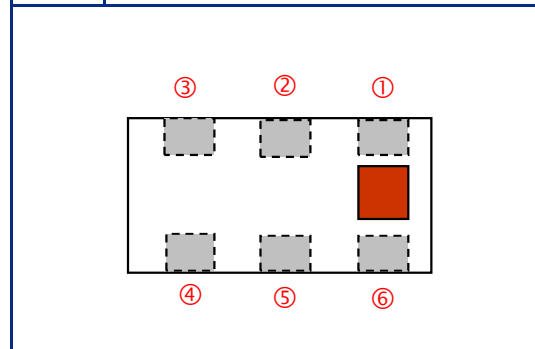
Mechanical Dimensions

| | In | mm |
|----------|---------------------|-------------|
| L | 0.079 ± 0.004 | 2.00 ± 0.10 |
| W | 0.049 ± 0.004 | 1.25 ± 0.10 |
| T | 0.031 ± 0.004 | 0.80 ± 0.10 |
| a | 0.012 ± 0.004 | 0.30 ± 0.10 |
| b | 0.008 ± 0.004 | 0.20 ± 0.10 |
| c | 0.012 ± 0.004 /-0.2 | 0.30 ± 0.10 |
| g | 0.014 ± 0.004 | 0.35 ± 0.10 |
| p | 0.026 ± 0.002 | 0.65 ± 0.05 |



Terminal Configuration

| No. | Function |
|----------|-------------------|
| 1 | Higher Freq. Port |
| 2 | GND |
| 3 | Lower Freq. Port |
| 4 | GND |
| 5 | Common Port |
| 6 | GND |



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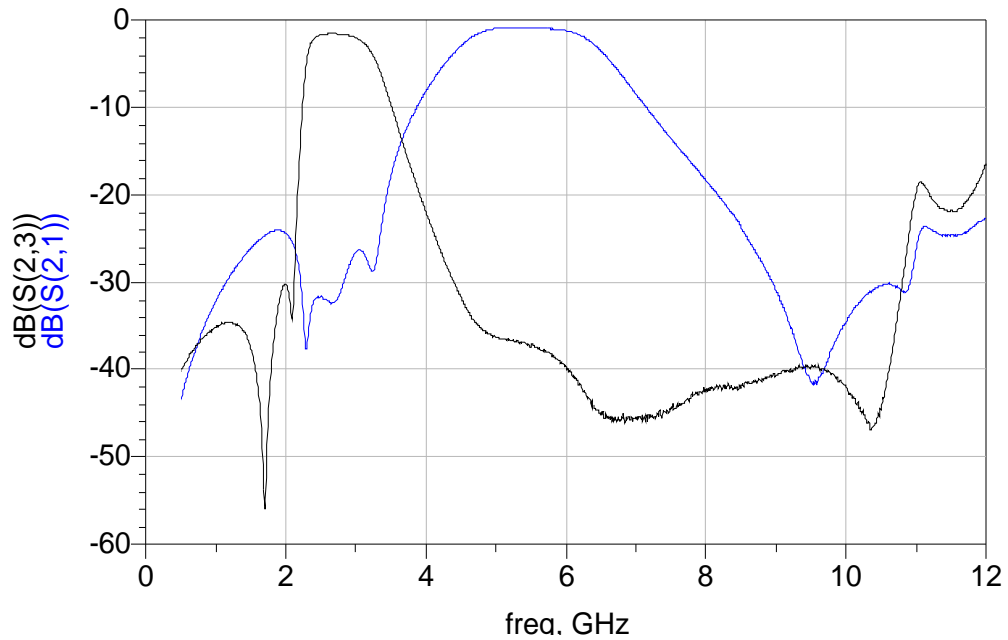
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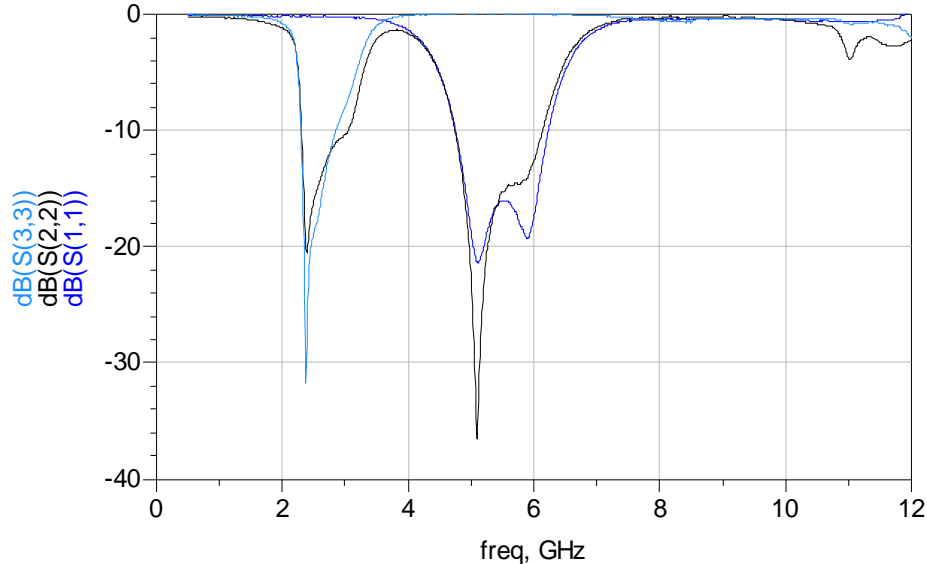
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Typical Electrical Performance (T=25°C)

Attenuation



Return Loss



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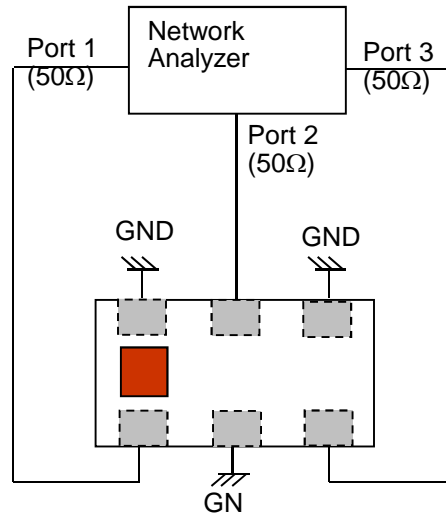
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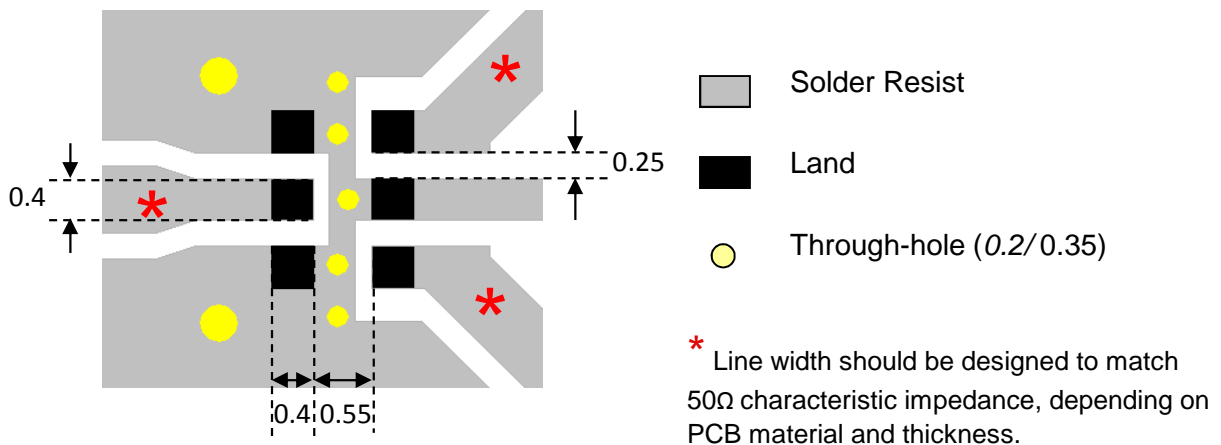
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Measuring Diagram



Mounting Considerations



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