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- 0.7 kHz to > 26 GHz
- 8 ps Risetime



The Model 5500 Series of DC Blocks is composed of extremely broadband, coaxial blocking capacitors. Due to the coaxial construction, excellent microwave and very fast risetime responses are achieved. The 5508-100 has a -3 dB bandwidth in excess of 26 GHz and a risetime faster than 8 ps. Large capacitance values up to 2.2 μF are available that give -3 dB low frequency cutoffs as low as 0.7 kHz.

| Model | 5500A | 5501A | 5508 |
|---------------------------------|--|-------------------------|-------------------------|
| Capacitance | 0.02 μF | 0.22 μF | 2.2 μF |
| Tolerance | 20 % | -50, +80% | -50, +80% |
| DC Voltage | 50 V max. | 50 V max. | 16 V max. |
| Type | inner | inner | inner |
| BW (-3 dB) <i>guaranteed</i> | > 26 GHz 20 GHz min. | > 26 GHz 20 GHz min. | > 26 GHz 20 GHz min. |
| Low Freq -3 dB | 80 kHz | 7 kHz | 0.7 kHz |
| Risetime | 10 ps | 10 ps | < 8 ps |
| Insertion Loss | See S_{21} plots < 0.5 dB max. 100 MHz to 2 GHz is guaranteed | | |
| Delay | 155 ps, see S_{21} group delay plots for typical responses | | |
| Impedance | 50 Ω | | |
| Return Loss | See S_{11} plots for typical responses | | |
| Temp. Range | -55 C to +125 C, operating and storage | | |
| Dimensions | 37.1 mm x 12.7 mm x 12.7 mm sq. (1.46" x 0.5" x 0.5") including connectors | | |
| Warranty | One Year. See Terms and Conditions of Sale for details. | | |

Notes

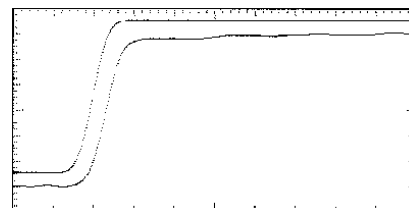
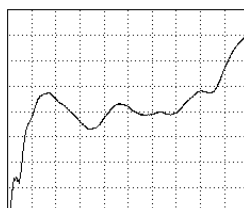
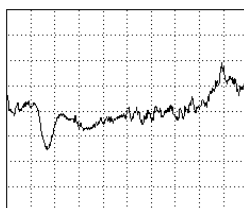
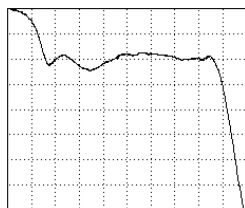
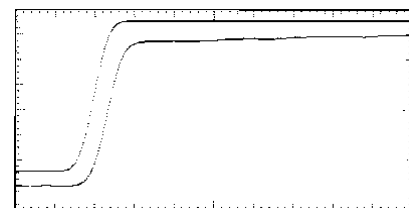
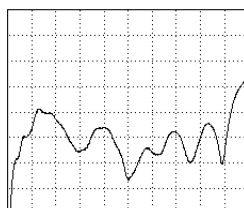
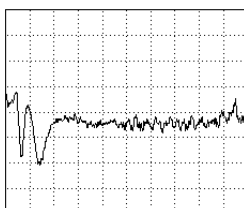
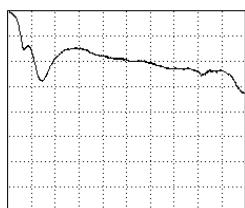
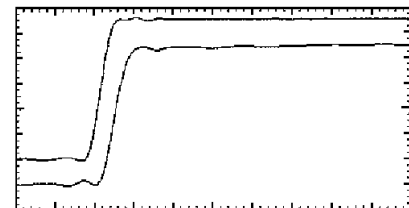
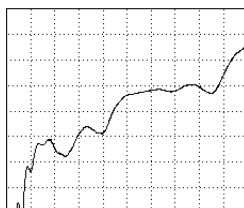
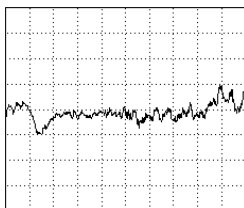
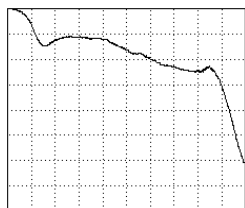
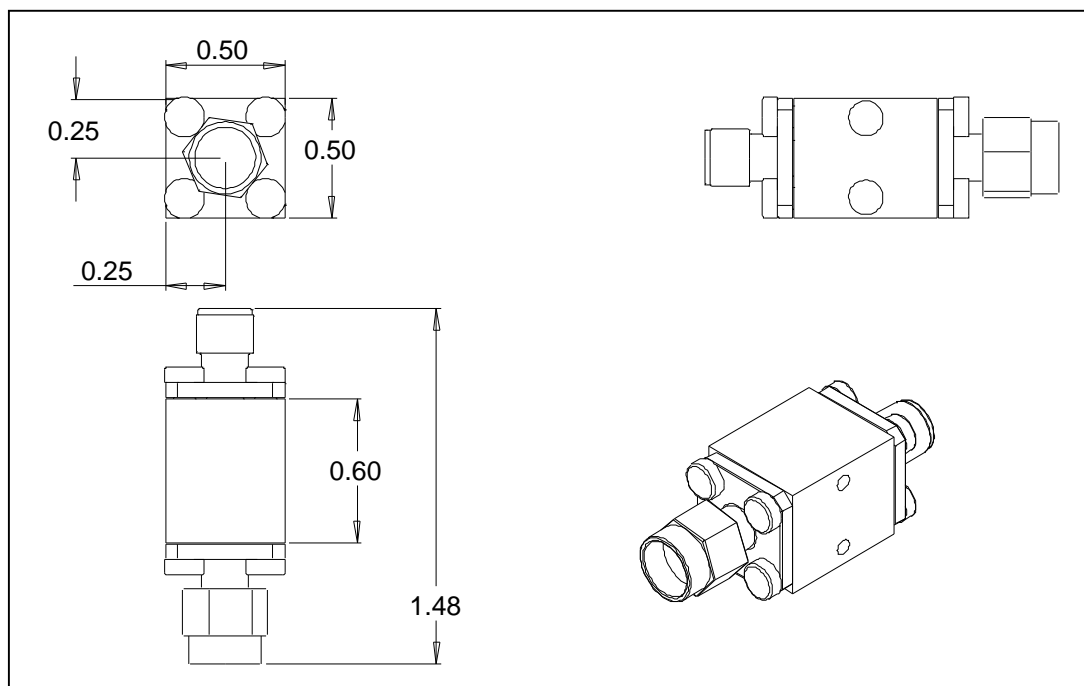
- [1] Parameters listed are typical values. Max/min limits for capacitance, bandwidth and insertion loss are guaranteed.
 [2] Not recommended for frequency domain applications above 26 GHz due to higher order resonances in SMAs.
 [3] Response plots are of samples pulled at random from production lots.
 [4] Frequency responses measured using a Wiltron 37369A 40 MHz - 40 GHz, vector network analyzer.
 [5] 10 ps risetime step responses measured using a PSPL Model 4015C pulse generator and an HP-54124A, 50GHz oscilloscope.

Ordering Information

| Model Number | Connector Configuration * |
|--------------|---------------------------|
| 5500A-100 | SMA jack (f) — jack (f) |
| 5500A-110 | SMA jack (f) — plug (m) |
| 5501A-110 | SMA jack (f) — plug (m) |
| 5501A-121 | SMA plug (m) — plug (m) |
| 5508-100 | SMA jack (f) — jack (f) |
| 5508-110 | SMA jack (f) — plug (m) |
| 5508-121 | SMA plug (m) — plug (m) |

* Other connector combinations may be available on request.

| Insertion Loss 0.25 dB/div | Group Delay 5 ps/div | Return Loss 5 dB/div | 10 ps Step Response top/bottom=in/out, 20 ps div |
|---|-------------------------|-------------------------|---|
| Linear sweep from 40 MHz to 25 GHz, 2.5 GHz/div | | | |


Model 5500A, 0.02 μ F, 50V DC Block

Model 5501A, 0.22 μ F, 50V DC Block

Model 5508, 2.2 μ F, 16V DC Block
550x Mechanical Drawing


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