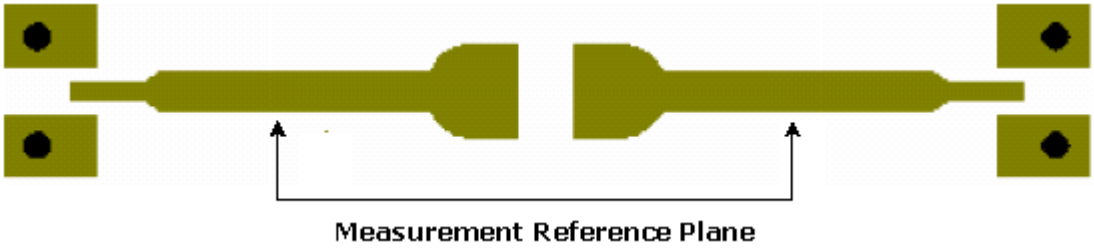
Insertion Loss Data

Component:	BB0805X7R154M16VP221
Global Part Number:	MBB0805X154MGP5N2-
Dielectric:	X7R
Capacitance:	150nF, 220pF
Voltage:	16VDC
Size:	0805
Temperature Coefficient:	±15% (-55C, +125C)

Measured on 8 Mil. Rogers 4003 (50MHz-20GHz)
Line Width 17 Mils
Pad Width 38 Mils
Gap Width 22 Mils



The capacitors were mounted to pad stacks printed on 8-mil Rogers 4003 material (er=3.38). Series 2-port S-parameter measurements were made using a vector network analyzer that was calibrated to the outer edge of the pad stacks. Test fixture artifacts were removed from the initial S-parameter data by de-embedding the pad stack effects, and subsequently extracting stray capacitance to ground using a pi-network equivalent circuit. The presented data is thus nominally test-fixture independent. Presented below is both the de-embedded data and the de-embedded and extracted data.

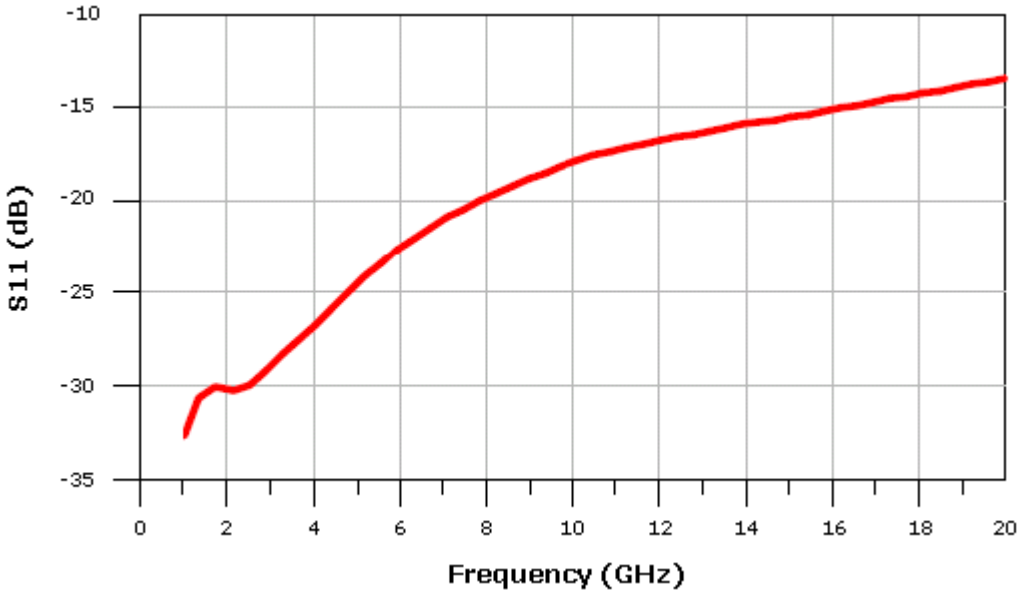


Figure 1 - Average Magnitude De-embedded and extracted S11 (dB) of Capacitor: BB0805X7R154M16VP221 Lot: 011240-79A measured on 8mil Rogers 4003.

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Insertion Loss Data

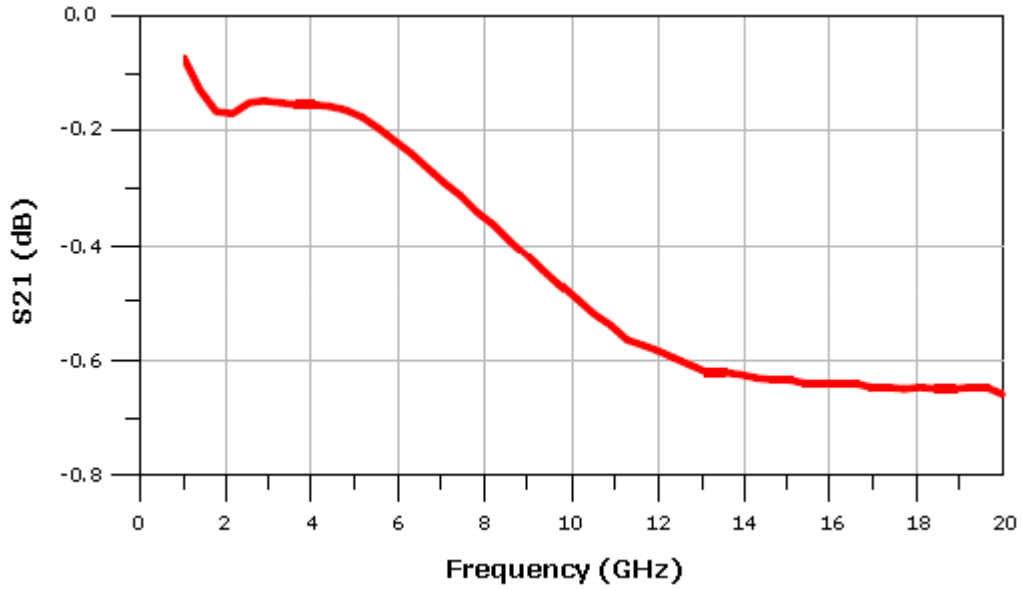

Figure 2 - Average Magnitude De-embedded and extracted S21 (dB) of Capacitor: BB0805X7R154M16VP221 Lot: 011240-79A measured on 8mil Rogers 4003.

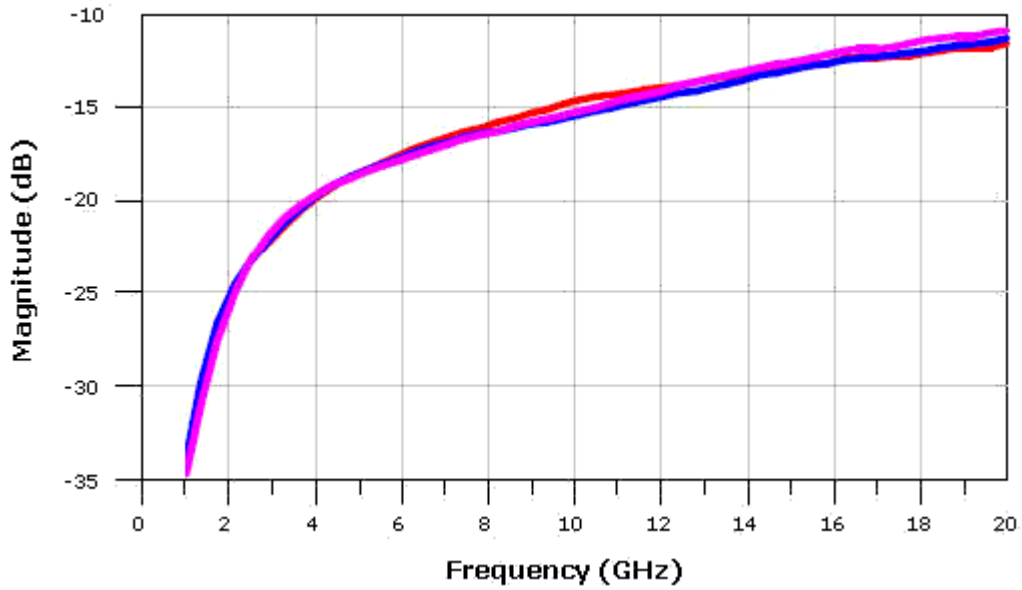

Figure 3 - Magnitude De-embedded S11 (dB) of Capacitor: BB0805X7R154M16VP221 Lot: 011240-79A measured on 8mil Rogers 4003.

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Insertion Loss Data

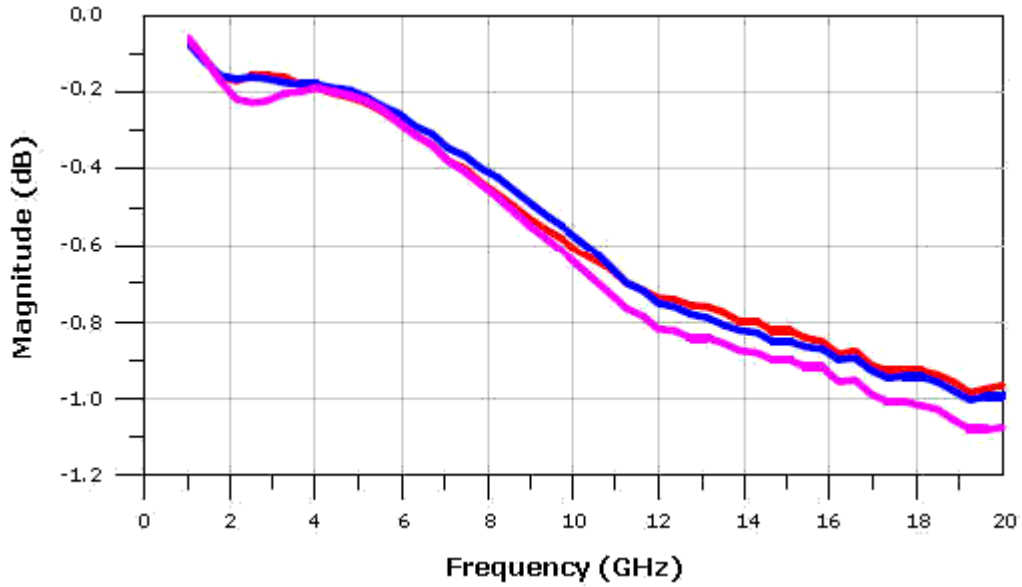
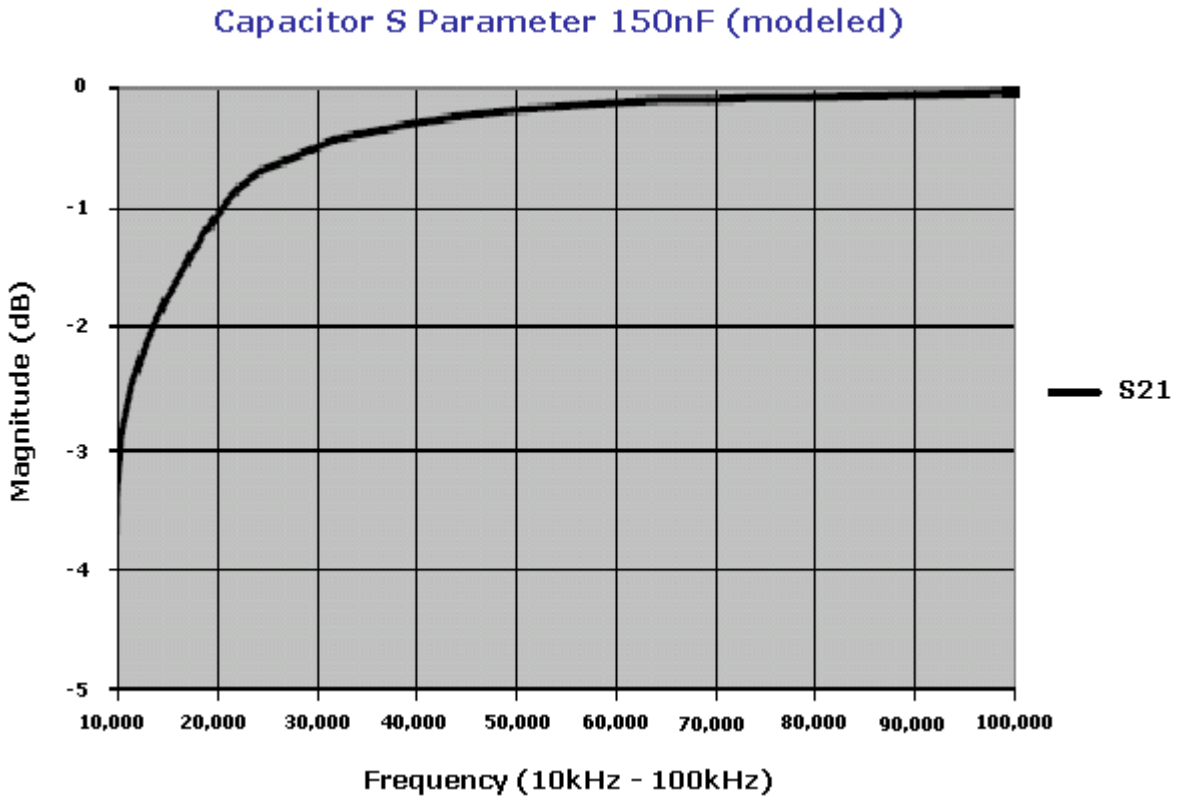


Figure 4 - Magnitude De-embedded S21 (dB) of Capacitor: BB0805X7R154M16VP221 Lot: 011240-79A measured on 8mil Rogers 4003.



Test Measurements and Modeling Services Provided by Modelithics.

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