1uH Iron Powder Toroidal Core (T-50-02) Leaded Inductor with Wire Shortened (Log-Scale) Sampling at the suggested Operating Frequency (1MHz - 30MHz) Real Impedance vs Frequency Magnitude vs Frequency 10^{0.1} 10² Magnitude RealZ ₀01 10 10^{-0.1} 10⁰ 10 15 2 Frequency (MHz) 10 15 2 Frequency (MHz) 5 20 25 30 5 20 25 30 0 0 Measurement Model Phase vs Frequency Imaginary Impedance vs Frequency 10³ 10^{0.19} 10^{0.18} 10² 1000.17 ImagZ 10¹ 10^{0.15} 1000.14 10⁰ 10 15 2 Frequency (MHz) 10 15 2 Frequency (MHz) 20 25 25 5 30 20 30 0 5