EESU Layer Detailed Information

Sample ID# 253D (2)

Date of Manufacture: February 2012

*Capacitance = 0.35 x 10-9 F

Relative permittivity (K) = 20.6

*Dissipation Factor = 0.024

Resistance = 580 X $10_9 \Omega$

Fill-Factor of Composition-Modified Barium Titanate Powders = 35%

Applied Voltage = 1250 V

Leakage current at 1250 V = $2.16 \times 10^{-9} \text{ A}$

THE FOLLOWING DATA IS ONLY FOR THE DIELECTRIC LAYER

Area = 0.25 in x 0.25 in = 0.635 cm x 0.635 cm = 0.403 cm₂

Volume = A x Thickness = $0.403 \text{ cm}_2 \text{ x } 21 \text{ x } 10 \text{ -4 cm} = 0.846 \text{ x } 10 \text{ -3 cm}_3 = 0.846 \text{ x } 10 \text{ -6 L}$

 $E = (C \times V_2)/7200 W_{h}$

E = 75.96 x 10-9 W+h

 $ED = 89.79 \times 10^{-3} W \cdot h/L$

*These parameters were measured on a calibrated LCR unit

(*Reader is cautioned that this tested sample was manufactured with a previous dielectric formulation*)