Case Report

Study of Standard Mica Capacitors with Respect to Time and Temperature

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Abstract
Standard mica capacitors manufactured by General Radio are widely used by National Metrology Institutes (NMIs) and other calibration laboratories. The temperature coefficient and stability of standard mica capacitors play significant role in precision measurement. This paper reports the study of standard mica capacitor (General Radio make) with respect to time and temperature. This study is useful for calibration laboratories while reporting measurement results in Proficiency Testing, Inter Laboratory Comparison programmes and calibration reports.

Keywords
Standard capacitor – Mica – Temperature coefficient – Stabilization time – Capacitance measurement