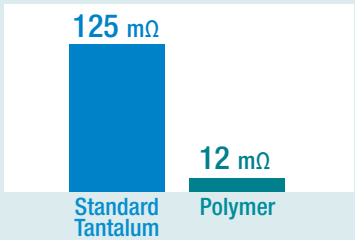
POLYMER CAPACITORS IN A NUTSHELL

HIGH-CAPACITANCE, LOW-ESR CAPACITORS

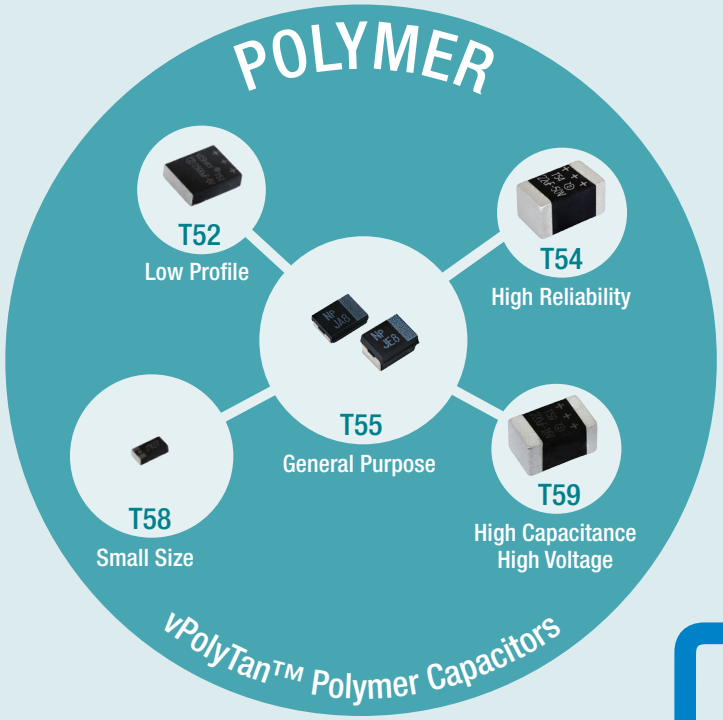
DERATING

	Specified Derating	Example: Rated Voltage	Example: Design Voltage
Standard Tantalum	50 %	10 V	5 V
Polymer	20 %	6.3 V	5 V

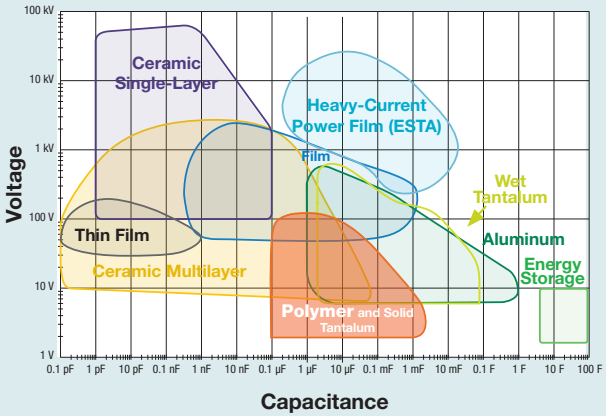
Ultra-Low ESR (10x improvement)



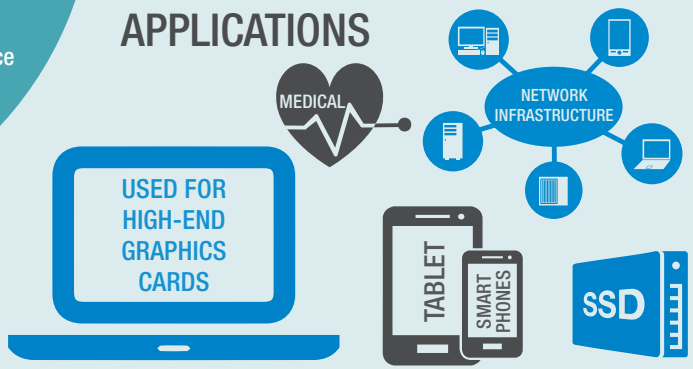
330 µF, 6.3 V, D CASE SIZE



VISHAY CAP MAP



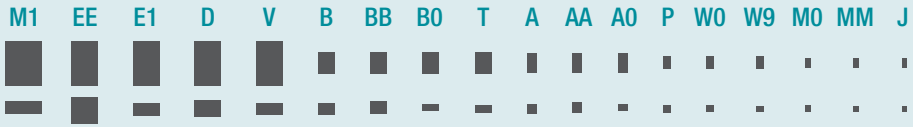
APPLICATIONS



Polymer Capacitors Advantages Over MLCC	Polymer Capacitors Advantages Over Standard Tantalum	Polymer Capacitors Advantages Over Aluminum
• No piezo noise effect • No capacitance loss with DC bias • More robust design (no cracking) • Superior temperature stability	• Lower ESR • Non-burn feature • Better derating	• Superior stability • Longer life • Higher operating temperature range • Better volumetric efficiency

VISHAY CAPABILITY

FOOTPRINT + PROFILE



Shown at actual size

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