

RC Series Single Pulse Load Capability

Chip Resistors Product BU
Product Marketing
May 2017

RC Single Pulse Load test

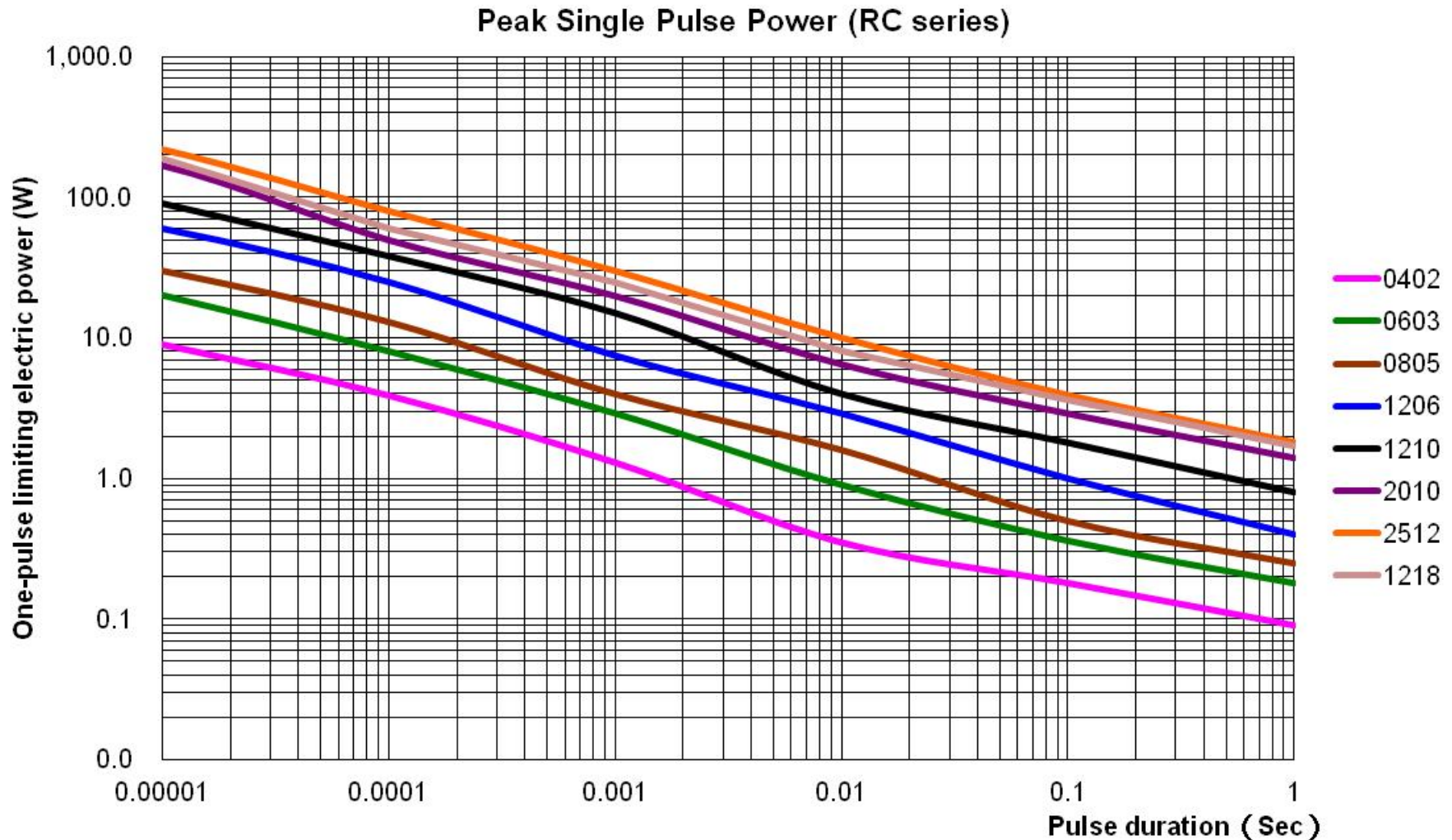
Single Pulse Load

- Test Method: EN140401-802 (1.10.6.4)
- Procedure: Applied the pulse power at $t_i=10\mu\text{s}/100\mu\text{s}/1\text{ms}/10\text{ms}/100\text{ms}/1\text{s}$ (pulse duration) with single pulse. Then the resistor is measured. The rated pulse voltage calculated from the graphic. However the rated voltage shall not exceed the maximum pulse load voltage.

Sample type for both tests: RC series (0402/0603/0805/1206/1210/1218/2010/2512)

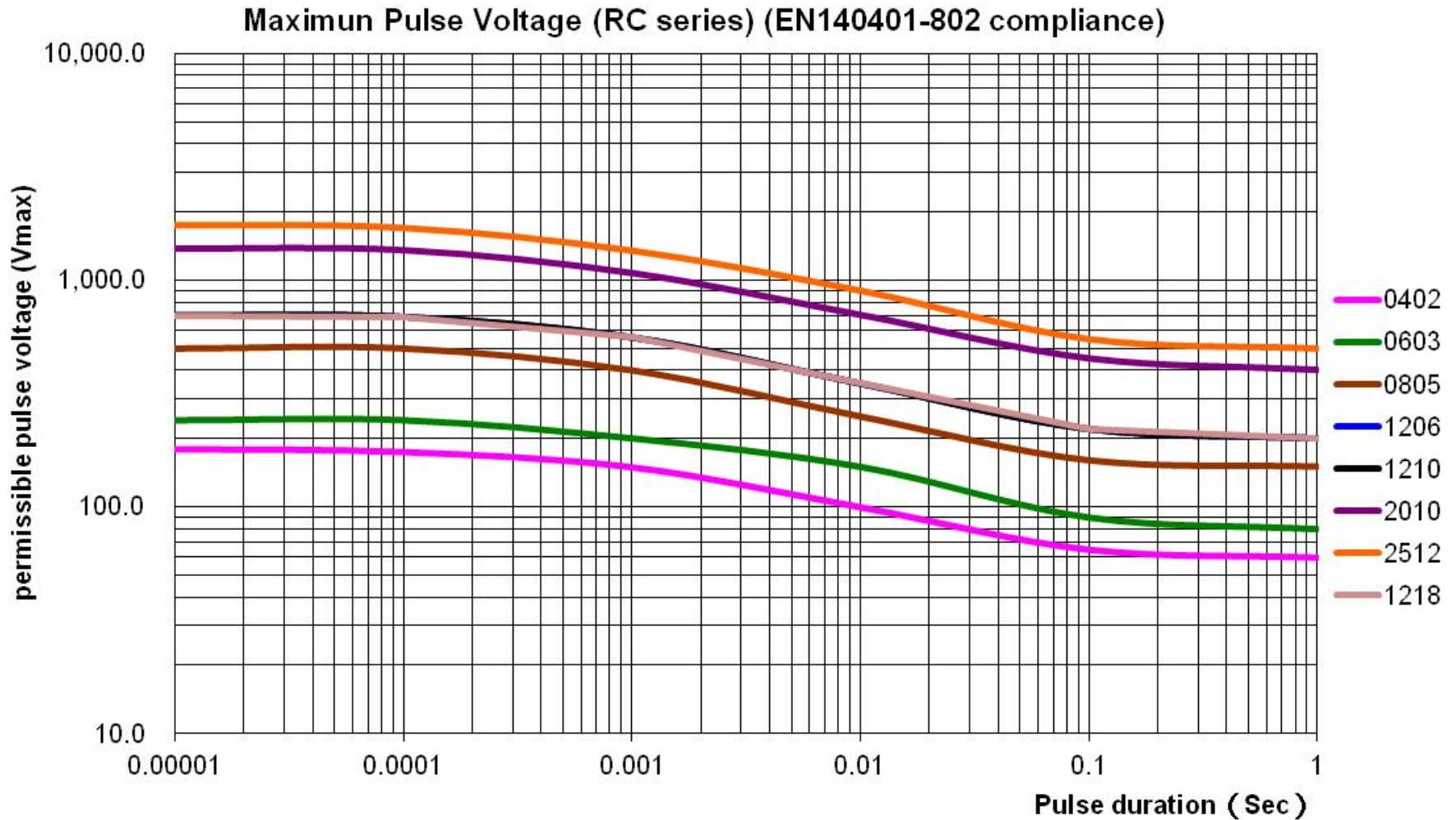
Requirement: $\Delta R/R \leq \pm(3.0+0.05 \Omega)\%$, **ALL PASS**

RC Single Pulse Power Curve



Maximum permissible peak pulse power as a function of pulse duration

RC Maximum Pulse Voltage Curve



Maximum permissible peak pulse voltage as a function of pulse duration

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Thank you