Leaded Varistors VM Dual Function Automotive Grade 125°C



Overview

KEMET's VM series of dual function protective devices protect against voltage surges in an automotive voltage region and against radio frequency noise. This component replaces two components – a low voltage varistor and a capacitor.

KEMET's VM series incorporate a varistor function in automotive applications in a voltage region of 12 V, 24 V and 42 V and a function of a radio-frequency filtering capacitor in a high capacitance range from $0.47 - 1.5 \mu$ F, making them ideal for protection in automobile electronic applications.

KEMET's VM series are square shaped components with inline leads and require at least 30% less mounting space.

Applications

Typical applications include the protection against voltage transients and suppression of radio-frequency interference in automobile electronics including wiper motors, central locking systems, seat adjustment motors, seat heating, and electric window systems.

Benefits

- AEC-Q200 qualified Grade 1
- Through-hole form factor
- Operating ambient temperature of -40°C to +125°C
- Supply voltage of 12, 24, and 42 V
- Operating voltage of 16 56 VDC
- Capacitance range at 1 kHz of 0.47 1.5 μF
- X7R capacitor temperature characteristics
- · Dimensional and weight savings on the board
- RoHS Compliant with Exemption 7cl

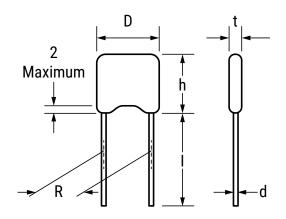




Ordering Information

VM	474	М	K	801	R	014	P050
Series	Capacitance Code (µF)	Capacitance Tolerance Code	Tolerance of Varistor Voltage	Maximum Surge Current Code	Packaging/ Lead Style	Maximum Continuous Working Voltage (Vrms AC)	Pitch Code
Varistor Dual Function Leaded 125°C Automotive Grade Varistor/ Capacitor (X7R Dielectric)	474 = 0.47 105 = 1.0 155 = 1.5	M = ±20%	K = ±10%	801 = 800 A 122 = 1,200 A	R = Bulk /Straight Lead B = Reel /Straight Lead	12 V Power Supply 014 = 14 Vrms AC 017 = 17 Vrms AC 24 V Power Supply 020 = 20 Vrms AC 030 = 30 Vrms AC 42 V Power Supply 040 = 40 Vrms AC	P050 = 5mm P120 = 12mm

Dimensions – Millimeters



As per part number table.

Environmental Compliance

RoHS Compliant with Exemption 7cl



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Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.

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