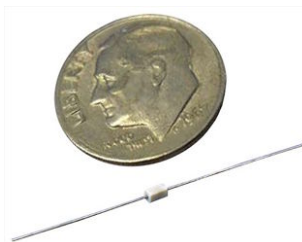


Thick Film Resistors, Industrial, Miniature, Axial-Leaded



FEATURES

- Small case size: 0.073" x 0.036"
- Rugged plastic housing
- Non-inductive design
- 100 % pure tin solder coating on nickel leadwires. Suitable for soldering and welding.
- Operating temperature range: - 55 °C to + 150 °C
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

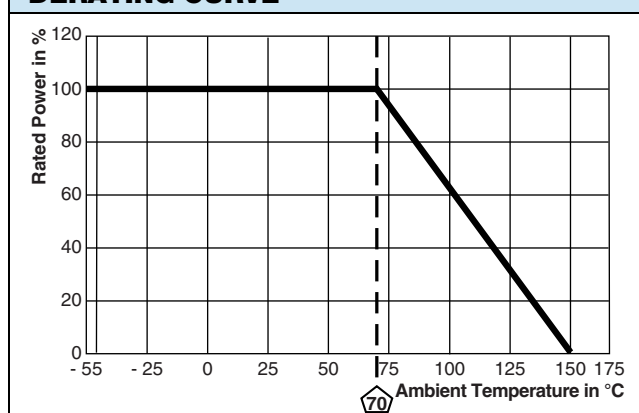
STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	POWER RATING $P_{70^{\circ}\text{C}}$ W	MAXIMUM WORKING VOLTAGE ⁽¹⁾ V	RESISTANCE RANGE Ω	TOLERANCE $\pm$ %	TEMPERATURE COEFFICIENT $\pm$ ppm/°C
HML01	0.063	50	1 to 9.1	2, 5, 10	300
			10 to 22M	1, 2, 5, 10	100, 200, 300
	Zero-ohm jumper: $R_{\text{max.}} = 30\text{ m}\Omega$, $I_{\text{max.}} = 1.2\text{ A}$				

Notes

- (1) Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less
- Consult factory for extended resistance range

DERATING CURVE



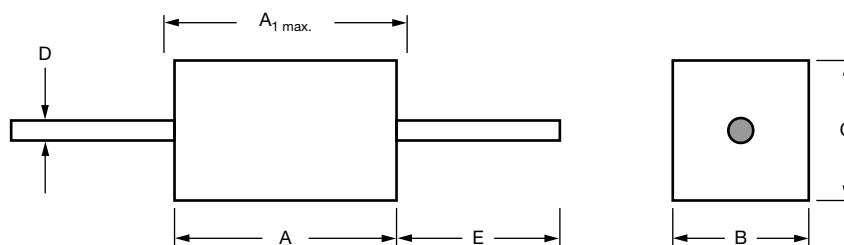
MATERIAL SPECIFICATIONS

Resistive element	Ruthenium oxide
Encapsulation	Plastic shell
Substrate	High purity 96 % alumina
Termination	Solder-coated nickel leadwire

GLOBAL PART NUMBER INFORMATION

Global Part Numbering: HML0110K0FKE05 (preferred part number format)

GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	TEMPERATURE COEFFICIENT	PACKAGING CODE	SPECIAL
(see Standard Electrical Specifications table)	$R = \Omega$ $K = k\Omega$ $M = M\Omega$ 9R10 = 9.1 Ω 43K2 = 43.2 $k\Omega$ 1M20 = 1.2 $M\Omega$ 0000 = 0 Ω Jumper	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ Z = 0 Ω jumper	K = 100 ppm N = 200 ppm M = 300 ppm S = Special, 0 Ω jumper	E05 = Lead (Pb)-free, lacer	Blank = Standard (dash number) (up to 3 digits) From 1 to 999 as applicable

DIMENSION in inches (millimeters)


MODEL	A (LENGTH)	B (WIDTH)	C (HEIGHT)	A _{1 max.} (CLEAN LEAD)	D (LEAD DIA)	E (LEAD LENGTH)
HML01	0.073 ± 0.002 (1.85 ± 0.05)	0.036 ± 0.002 (0.91 ± 0.05)	0.036 ± 0.002 (0.91 ± 0.05)	0.093 (2.36)	0.0074 ± 0.0001 (0.188 ± 0.003)	1.400 ± 0.100 (35.56 ± 2.54)



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