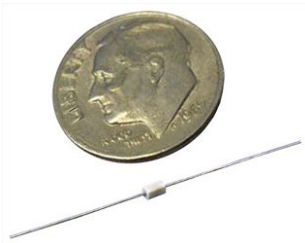
Thick Film Resistors, Industrial, Miniature, Axial-Leaded



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

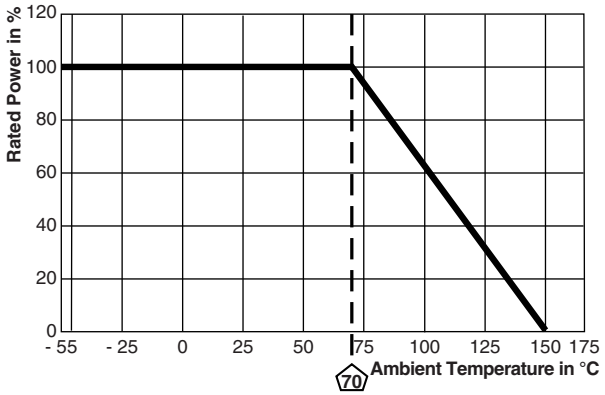
GLOBAL MODEL	POWER RATING $P_{70\,°C}$ W	MAXIMUM WORKING VOLTAGE (1) V	RESISTANCE RANGE Ω	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C
HML01	0.063	50	1 to 9.1	2, 5, 10	300
			10 to 22M	1, 2, 5, 10	100, 200, 300
	Zero-ohm jumper: $R_{max.}$ = 30 mΩ, $I_{max.}$ = 1.2 A				

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

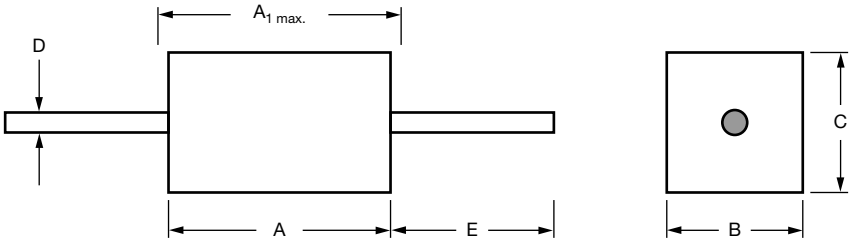
GLOBAL PART NUMBER INFORMATION

Global Part Numbering: HML0110K0FKE05 (preferred part number format)

H	M	L	0	1	1	0	K	0	F	K	E	0	5			

GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	TEMPERATURE COEFFICIENT	PACKAGING CODE	SPECIAL
(see Standard Electrical Specifications table)	**R** = Ω **K** = kΩ **M** = MΩ **9R10** = 9.1 Ω **43K2** = 43.2 kΩ **1M20** = 1.2 MΩ **0000** = 0 Ω Jumper	**F** = ± 1 % **G** = ± 2 % **J** = ± 5 % **K** = ± 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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