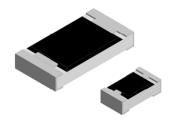


www.vishay.com

Thick Film Surface Mount Chip Resistors, Wraparound, Extremely Low Value (0.01 Ω to 0.976 Ω)



FEATURES

• Extremely low resistance values (0.01 Ω to 0.976 Ω)



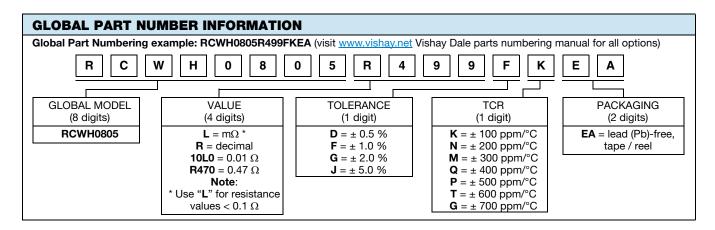
- Suitable for current sensing and shunts
- · Metal glaze on high quality ceramic
- RoHS

- Protective overglaze
- Lead (Pb)-free solder contacts on Ni barrier layer HALOGEN FREE
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	CASE SIZE P-0.00		TEMPERATURE COEFFICIENT ± ppm/°C	RESISTANCE RANGE Ω	TOLERANCE ± %	E-SERIES (2)		
RCWH0805	0805	0.33	400	0.010 to 0.018	5.0	24		
			300	0.02 to 0.03	1.0, 5.0	24; 96		
			200	0.033 to 0.05	1.0, 5.0			
			100	0.051 to 0.976	0.5, 1.0, 5.0 ⁽¹⁾			

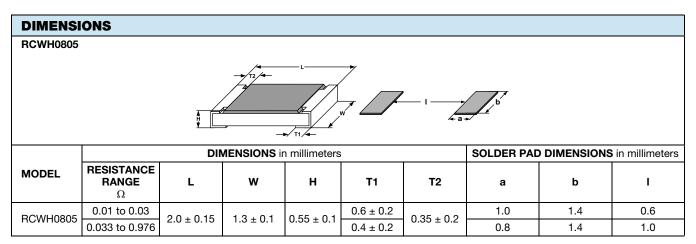
Notes

- Power rating depends on the max, temperature at the solder point, the component placement density and the substrate material
- Part marking: reference "Surface Mount Resistor Marking" (www.vishav.com/doc?20020)
- $^{(1)}$ Tight tolerance of 0.5 % is available for resistance values above 0.200 Ω
- (2) Use E24 decade values for 5.0 % tolerance parts and E96 decade values for 0.5 % and 1.0 %. Refer to "Standard Decade" table (www.vishay.com/doc?31001)

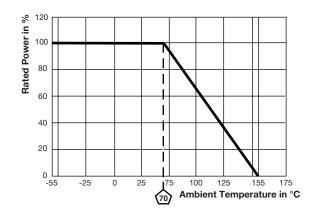


TECHNICAL SPECIFICATIONS						
PARAMETER	UNIT	RCWH0805				
Operating temperature range	°C	-55 to +155				
Maximum operating voltage	V	$(P \times R)^{1/2}$				
Insulation voltage U _{ins} (1 min)	V	> 200				
Insulation resistance	Ω	> 109				
Weight/1000 pieces (typical)	g	5.5				





DERATING



PERFORMANCE				
TEST CONDITIONS OF TEST		TEST LIMITS		
Thermal shock	MIL-STD-202, method 107, -55 °C to +125 °C, 300 cycles at each extreme	± (1.0 % + 0.0005 Ω)		
Short time overload	2 x rated power; duration according the model	$\pm (0.5 \% + 0.0005 \Omega)$		
High temperature exposure	MIL-STD-202, method 108, 1000 h at T = 125 °C, 0 % power	\pm (2.0 % + 0.0005 Ω)		
Temperature cycling	JESD 22, method JA-104, 1000 cycles (-55 °C to +125 °C)	± (2.0 % + 0.0005 Ω)		
Biased humidity	MIL-STD-202, method 103, 1000 h 85 °C/85 % RH, 10 % x (P x R) ^{1/2}	± (2.0 % + 0.0005 Ω)		
Mechanical shock	MIL-STD-202, method 213, condition C, 10 g's, 6 ms (half sine), 3 directions	± (1.0 % + 0.0005 Ω)		
Vibration	MIL-STD-202, method 204, 5 g's, 20 min, 12 cycles, 3 directions, 10 Hz to 2000 Hz	± (1.0 % + 0.0005 Ω)		
Operational life	MIL-STD-202, method 108, 1000 h at T = 125 °C at rated power	± (2.0 % + 0.0005 Ω)		
Resistance to solder heat	MIL-STD-202, method 210, +260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	\pm (1.0 % + 0.0005 Ω)		
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7a and 7b not required	\pm (2.0 % + 0.0005 Ω)		

PACKAGING							
MODEL	REEL						
WIODEL	TAPE WIDTH	DIAMETER	PITCH	PIECES/REEL	CODE		
RCWH0805	8 mm/punched paper	180 mm/7"	4 mm	5000	EA		

Note

• Embossed carrier tape per EIA-481-1A



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