Vishay Huntington

Wirewound Resistors, Precision Power, Surface Mount



www.vishay.com

FEATURES

- All welded construction
- Molded encapsulation
- Wraparound terminations
- · Excellent stability at different environmental conditions
- High power ratings (up to 4 W)
- Available in non-inductive styles ("NI" Ayrton-Perry SPECIAL) with winding (Resistance max. value is one half standard value)

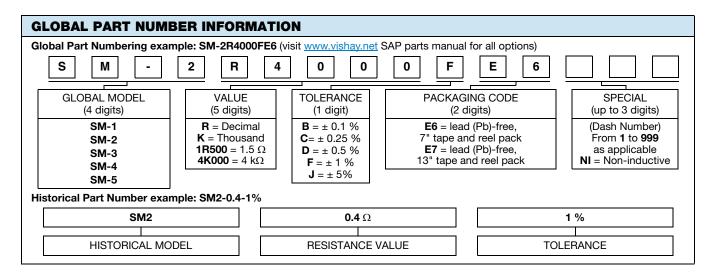


RoHS COMPLIANT HALOGEN FREE **GREEN** (5-2008)

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{70 °C} W	RESISTANCE RANGE Ω	TOLERANCE ± %	WEIGHT (TYPICAL) g/1000 PIECES	
SM-1	SM1	0.5	0.1 to 400	0.1, 0.25, 0.5, 1, 5	45	
SM-2	SM2	1	0.1 to 3K	0.1, 0.25, 0.5, 1, 5	230	
SM-3	SM3	3	0.1 to 25K	0.1, 0.25, 0.5, 1, 5	1360	
SM-4	SM4	2	0.1 to 15K	0.1, 0.25, 0.5, 1, 5	680	
SM-5	SM5	4	0.1 to 50K	0.1, 0.25, 0.5, 1, 5	2040	

TECHNICAL SPECIFICATIONS				
PARAMETER UNIT SM RESISTOR CHARACTERISTICS		SM RESISTOR CHARACTERISTICS		
Temperature Coefficient	ppm/°C	\pm 20 > 10 $\Omega,$ \pm 50 1 Ω to 10 $\Omega,$ contact factory for 0.99 Ω and below		
Dielectric Withstanding Voltage	V _{AC}	1000		
Operating Temperature Range	°C	-55 to +275		
Maximum Working Voltage	V	(P x R) ^{1/2}		



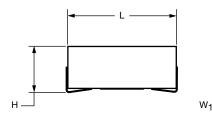
1 For technical questions, contact: ww2bresistors@vishay.com Document Number: 31812

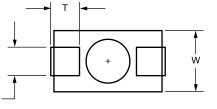
SM

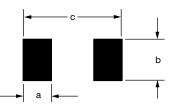
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DIMENSIONS in inches [millimeters]







GLOBAL MODEL	DIMENSIONS in inches [millimeters]				SOLDER PAD DIMENSIONS			
	L ± 0.015 [0.381]	W ± 0.015 [0.381]	H ± 0.015 [0.381]	W1 ± 0.015 [0.381]	T ± 0.015 [0.381]	a ± 0.015 [0.381]	b ± 0.015 [0.381]	c ± 0.015 [0.381]
SM-1	0.190 [4.83]	0.130 [3.30]	0.110 [2.79]	0.060 [1.52]	0.040 [1.02]	0.062 [1.57]	0.100 [2.54]	0.250 [6.35]
SM-2	0.260 [6.60]	0.155 [3.94]	0.125 [3.18]	0.070 [1.78]	0.070 [1.78]	0.096 [2.44]	0.112 [2.84]	0.337 [8.56]
SM-3	0.625 [15.88]	0.270 [6.86]	0.250 [6.35]	0.120 [3.05]	0.135 [3.43]	0.200 [5.08]	0.150 [3.81]	0.700 [17.78]
SM-4	0.450 [11.43]	0.250 [6.35]	0.180 [4.57]	0.120 [3.05]	0.100 [2.54]	0.155 [3.94]	0.230 [5.84]	0.540 [13.72]
SM-5	0.820 [20.83]	0.295 [7.49]	0.305 [7.75]	0.150 [3.81]	0.190 [4.83]	0.220 [5.59]	0.250 [6.35]	0.900 [22.86]

MATERIAL SPECIFICATIONS

Element: copper-nickel alloy

Encapsulation: molded epoxy

Core: ceramic

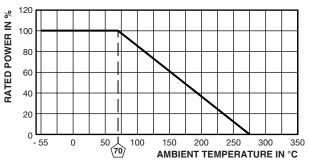
Terminal: matte tin

Part Marking: HEI, model, value, tolerance, date code

Note

Due to resistor size limitations some resistors will have minimal ٠ information marked on parts

DERATING



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal Shock	-55 °C to +150 °C, 1000 cycles, 15 min at each extreme	\pm 0.5 % + 0.05 Ω			
Short Time Overload	5x rated power for 5 s	± 0.5 % + 0.05 Ω			
Low Temperature Storage	-55 °C for 24 h	± 0.5 % + 0.05 Ω			
Load Life	1000 h at rated power, +70 °C, 1.5 h "ON", 0.5 h "OFF"	± 1.0 % + 0.05 Ω			
Resistance to Solder Heat	MIL-STD 202; 260 °C, 10 s	\pm 0.5 % + 0.05 Ω			
Moisture Resistance	Per MIL-STD 202	± 1.0 % + 0.05 Ω			

PACKAGING						
MODEL	REEL					
WODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	PACKAGE CODE		
SM-1	12 mm/embossed plastic -	178 mm/7"	650	E6		
5101-1		330 mm/13"	3000	E7		
SM-2	16 mm/embossed plastic	178 mm/7"	600	E6		
5IVI-2		330 mm/13"	2000	E7		
SM-3	24 mm/embossed plastic -	178 mm/7"	125	E6		
5101-5		330 mm/13"	500	E7		
SM-4	24 mm/ombosood plastic	178 mm/7"	250	E6		
5111-4	24 mm/embossed plastic	330 mm/13"	1000	E7		
SM-5	32 mm/embossed plastic -	178 mm/7"	180	E6		
0-1910		330 mm/13"	500	E7		

Revision: 06-Apr-18

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