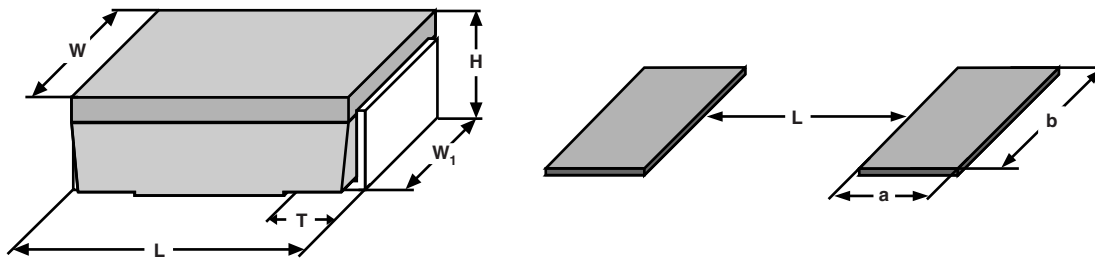


GLOBAL PART NUMBER INFORMATION																
Global Part Numbering Example: WSC2515R7000FEA (visit <a href="http://www.vishay.net">www.vishay.net</a> Vishay Dale parts numbering manual for all options)																
W	S	C	2	5	1	5	R	7	0	0	0	F	E	A		
GLOBAL MODEL		SIZE		VALUE <sup>(1)</sup>		TOLERANCE		PACKAGING				SPECIAL				
WSC WSN		01/2 2515 0002 4527 6927		R = decimal K = thousand R7000 = 0.70 Ω 1K500 = 1.5 kΩ		D = ± 0.5 % F = ± 1.0 % G = ± 2.0 % H = ± 3.0 % J = ± 5.0 % K = ± 10 %		EA = lead (Pb)-free, tape / reel EK = lead (Pb)-free, bulk TA = tin / lead, tape / reel (R86) BA = tin / lead, bulk (B43)				(dash number) (up to 2 digits) from 1 to 99 as applicable				

**Notes**

<sup>(1)</sup> WSC / WSN marking ([www.vishay.com/doc?30327](http://www.vishay.com/doc?30327))

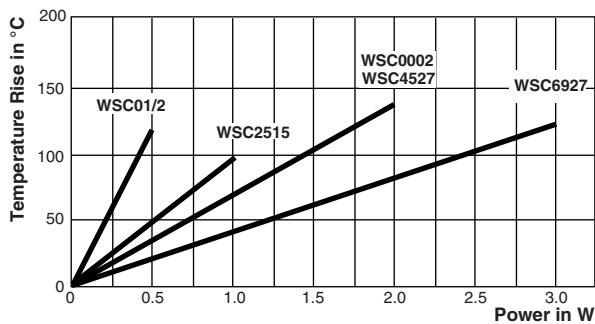
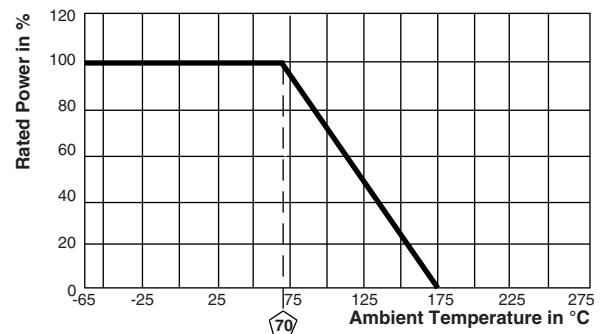
- Packaging code: EB (lead (Pb)-free) and TB (tin / lead) are non-standard packaging codes designating 1000 piece reels. These non-standard packaging codes are identical to our standard EA (lead (Pb)-free) and TA (tin / lead), except that they have a package quantity of 1000 pieces

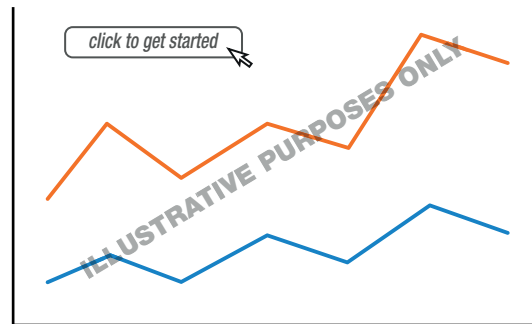
**DIMENSIONS** in inches (millimeters)


GLOBAL MODEL	DIMENSIONS					SOLDER PAD DIMENSIONS		
	L	H	T	W	W <sub>1</sub>	a	b	L
WSC01/2	0.200 ± 0.020 (5.08 ± 0.508)	0.096 ± 0.015 (2.44 ± 0.381)	0.040 ± 0.010 (1.02 ± 0.254)	0.125 ± 0.005 (3.18 ± 0.127)	0.050 ± 0.010 (1.27 ± 0.254)	0.085 (2.16)	0.070 (1.78)	0.080 (2.03)
WSC2515	0.250 ± 0.020 (6.35 ± 0.508)	0.110 ± 0.015 (2.79 ± 0.381)	0.045 ± 0.010 (1.14 ± 0.254)	0.150 ± 0.005 (3.81 ± 0.127)	0.098 ± 0.010 (2.49 ± 0.254)	0.090 (2.29)	0.115 (2.92)	0.120 (3.05)
WSC0002	0.455 ± 0.020 (11.56 ± 0.508)	0.167 ± 0.010 (4.24 ± 0.254)	0.100 ± 0.010 (2.54 ± 0.254)	0.275 ± 0.005 (6.98 ± 0.127)	0.215 ± 0.005 (5.46 ± 0.127)	0.155 (3.94)	0.230 (5.84)	0.205 (5.21)
WSC4527	0.455 ± 0.020 (11.56 ± 0.508)	0.167 ± 0.010 (4.24 ± 0.254)	0.100 ± 0.010 (2.54 ± 0.254)	0.275 ± 0.005 (6.98 ± 0.127)	0.215 ± 0.005 (5.46 ± 0.127)	0.155 (3.94)	0.230 (5.84)	0.205 (5.21)
WSC6927	0.690 ± 0.032 (17.53 ± 0.813)	0.280 ± 0.015 (7.11 ± 0.381)	0.100 ± 0.010 (2.54 ± 0.254)	0.275 ± 0.005 (6.98 ± 0.127)	0.215 ± 0.015 (5.46 ± 0.381)	0.155 (3.94)	0.235 (5.97)	0.470 (11.94)

**Notes**

- 3D models available: [www.vishay.com/doc?30328](http://www.vishay.com/doc?30328)
- Surface mount solder profile recommendations: [www.vishay.com/doc?31052](http://www.vishay.com/doc?31052)
- Refer to WSC, WSN conversion guide for detailed construction drawings: [www.vishay.com/doc?49616](http://www.vishay.com/doc?49616)
- For WSC2515 0.5 % tolerance parts, W<sub>1</sub> terminal dimension will be 0.090" ± 0.015"

**TEMPERATURE RISE**

**DERATING**


**PULSE CAPABILITY**


[www.vishay.com/resistors/SMD-wirewound-pulse-capability-calculator/](http://www.vishay.com/resistors/SMD-wirewound-pulse-capability-calculator/)

**Note**

- Pulse capability increases based on the amount of wire for the resistance value and construction. The WSC0002 has greater pulse capability than WSC4527 due to differences in internal construction. The non-inductive WSN has greater pulse capability for the same size WSC because the second layer of wire increases the wire mass available to withstand pulse energy without exceeding temperature limits. Follow pulse graphic link for more information regarding capability

<b>PERFORMANCE</b>		
<b>TEST</b>	<b>CONDITIONS OF TEST</b>	<b>TEST LIMITS</b>
Thermal shock	-55 °C to +150 °C, 1000 cycles, 15 min at each extreme	± 0.5 % + 0.05 Ω
Short time overload	5 x rated power for 5 s	± 0.2 % + 0.05 Ω
Low temperature storage	-65 °C for 24 h	± 0.2 % + 0.05 Ω
High temperature exposure	1000 h at +175 °C	± 0.5 % + 0.05 Ω
Bias humidity	+85 °C, 85 % RH, 10 % bias, 1000 h	± 0.2 % + 0.05 Ω
Mechanical shock	100 g's for 6 ms, 5 pulses	± 0.1 % + 0.05 Ω
Vibration	Frequency varied 10 Hz to 500 Hz in 1 min, 3 directions, 9 h	± 0.1 % + 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	+260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	± 0.5 % + 0.05 Ω

<b>PACKAGING</b>				
<b>MODEL</b>	<b>REEL</b>			
	<b>TAPE WIDTH</b>	<b>DIAMETER</b>	<b>PIECES/REEL</b>	<b>CODE</b>
WSC01/2	12 mm / embossed plastic	330 mm / 13"	2000	EA / TA
WSC2515	16 mm / embossed plastic	330 mm / 13"	2000	EA / TA
WSC0002, WSC4527	24 mm / embossed plastic	330 mm / 13"	1200	EA / TA
WSC6927	32 mm / embossed plastic	330 mm / 13"	725	EA / TA

**Notes**

- Embossed carrier tape per EIA-481
- Additional packaging details at [www.vishay.com/doc?20051](http://www.vishay.com/doc?20051)



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