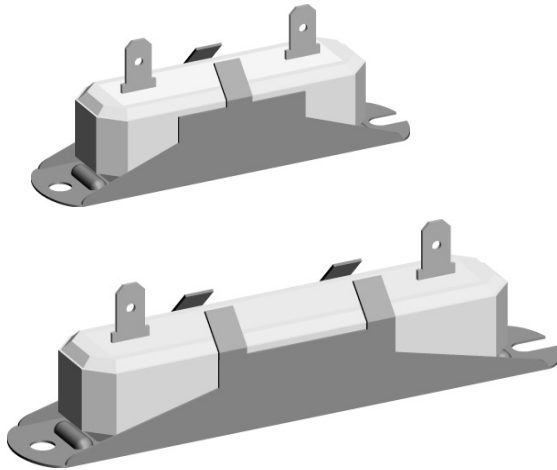


## Wirewound Resistors, Special Purpose, Commercial, High Power



### FEATURES

- High power/size ratio
- Quick connect terminals
- Complete welded construction
- High surge capability
- Non-inductive styles available
- Special inorganic potting compound and ceramic case provide high thermal conductivity in a fireproof package
- SPR2214 includes a center terminal option

### STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25^{\circ}\text{C}}$ W		RESISTANCE RANGE $\Omega$ $\pm 5\%, \pm 10\%$
		WITHOUT HEAT SINK	WITH HEAT SINK	
SPR2213	SPR-2213	40	70	0.5 - 24k
SPR2214	SPR-2214	50	100	1.0 - 44k

### TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	SPR2213 AND SPR2214 RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/ $^{\circ}\text{C}$	$\pm 50$ below $10\Omega$ , $\pm 30$ $10\Omega$ and above
Short Time Overload	-	10 x rated power for 5 seconds
Maximum Working Voltage	V	$(P \times R)^{1/2}$
Operating Temperature Range	$^{\circ}\text{C}$	- 65/+ 275
Dielectric Withstanding Voltage	$V_{AC}$	2500

### GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: SPR221375R000JD (preferred part numbering format)

S P R 2 2 1 3 7 5 R 0 0 0 J D

GLOBAL MODEL  
SPR2213  
SPR2214

VALUE  
R = Decimal  
K = Thousand  
R15000 =  $0.15\Omega$   
1K5000 =  $1,500\Omega$

TOLERANCE  
J =  $\pm 5.0\%$   
K =  $\pm 10\%$

PACKAGING  
D = Skin pack (S51)

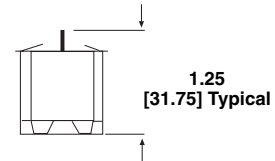
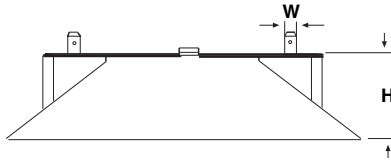
SPECIAL  
(Dash Number)  
(up to 2 digits)  
From 1-99 as applicable

Historical Part Number example: SPR-2213 75 $\Omega$  5% S51 (will continue to be accepted)

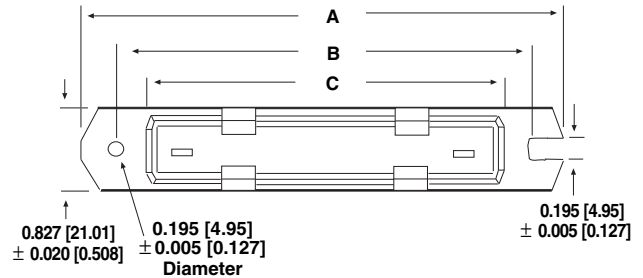
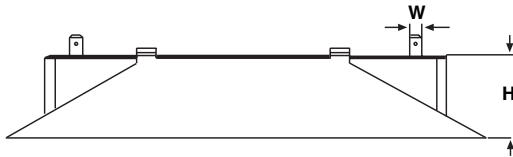
SPR-2213      75 $\Omega$       5%      S51  
HISTORICAL MODEL      RESISTANCE VALUE      TOLERANCE CODE      PACKAGING

## DIMENSIONS

### SPR2213



### SPR2214



GLOBAL MODEL	DIMENSIONS in inches [millimeters]				
	A Typical	B ± 0.031 [0.794]	C ± 0.031 [0.794]	W ± 0.005 [0.127]	H Typical
SPR2213	3.375 [85.73]	3.00 [76.20]	2.50 [63.50]	0.250 x 0.031 [6.35 x 0.794]	0.810 [20.57]
SPR2214	4.563 [115.90]	4.125 [104.78]	3.625 [92.08]	0.250 x 0.031 [6.35 x 0.794]	0.810 [20.57]

## MATERIAL SPECIFICATIONS

**Element:** Copper-nickel alloy or nickel-chrome alloy, depending on resistance value

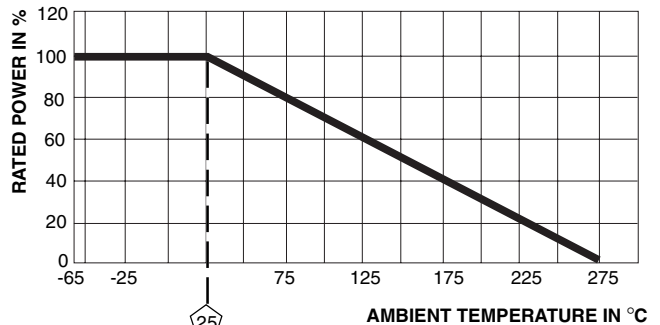
**Core:** Steatite ceramic

**Body:** Steatite ceramic case with inorganic potting compound

**Terminals:** Nickel plated steel

**Bracket:** Zinc plated steel

**Part Marking:** DALE, Model, Wattage, Value, Tolerance, Date Code



**Derating**

PERFORMANCE		
TEST	CONDITIONS OF TEST	TEST LIMITS
Thermal Shock	Rated power applied until thermally stable, then a minimum of 15 minutes at - 55°C	± (2.0% + 0.05Ω)ΔR
Short Time Overload	10 x rated power for 5 seconds	± (2.0% + 0.05Ω)ΔR
Dielectric Withstanding Voltage	1000V rms, 1 minute	± (0.1% + 0.05Ω)ΔR
Low Temperature Storage	- 65°C for 24 hours	± (2.0% + 0.05Ω)ΔR
High Temperature Exposure	250 hours at + 275°C	± (2.0% + 0.05Ω)ΔR
Moisture Resistance	MIL-STD-202 Method 106, 7b not applicable	± (2.0% + 0.05Ω)ΔR
Shock, Specified Pulse	MIL-STD-202 Method 213, 100g's for 6 milliseconds, 10 shocks	± (0.2% + 0.05Ω)ΔR
Vibration, High Frequency	Frequency varied 10 to 2000Hz, 20g peak, 2 directions 6 hours each	± (0.2% + 0.05Ω)ΔR
Load Life	1000 hours at rated power, + 25°C, 1.5 hours "ON", 0.5 hours "OFF"	± (3.0% + 0.05Ω)ΔR



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