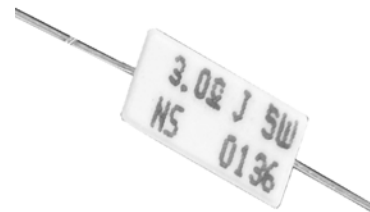


- Features:
- Flameproof construction
 - Temperature coefficient of resistance of $\pm 200 \text{ ppm}/^\circ\text{C}$
 - Low resistance values
 - Power derating is linear from 100% at 25°C to zero at 250°C
 - Also available with standoffs as NSPP
 - Other styles and configurations available - contact factory
 - RoHS compliant / lead-free

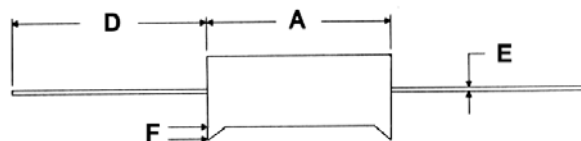
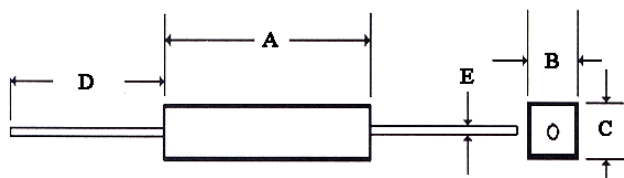


Electrical Specifications				
Type / Code	Power Rating (Watts) @ 25°C	Maximum Working Voltage (*)	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance
				1%, 5%
NSP 2	2W	100V	$\pm 200 \text{ ppm}/^\circ\text{C}$	0.1 - 20K
NSP 3	3W	200V	$\pm 200 \text{ ppm}/^\circ\text{C}$	0.1 - 20K
NSP 5	5W	300V	$\pm 200 \text{ ppm}/^\circ\text{C}$	0.1 - 20K
NSP 7	7W	350V	$\pm 200 \text{ ppm}/^\circ\text{C}$	0.1 - 20K
NSP 10	10W	500V	$\pm 200 \text{ ppm}/^\circ\text{C}$	0.1 - 20K
NSP 15	15W	600V	$\pm 200 \text{ ppm}/^\circ\text{C}$	0.1 - 2K
NSP 20	20W	700V	$\pm 200 \text{ ppm}/^\circ\text{C}$	0.1 - 2K
NSP 25	25W	700V	$\pm 200 \text{ ppm}/^\circ\text{C}$	0.1 - 5.1K

(*) Lesser of $\sqrt{\text{PR}}$ or maximum working voltage.

Performance Characteristics	
Test	Test Results
Moisture Resistance	$\pm 5\%$
Thermal Shock	$\pm 2\%$
Load Life @ 70°C - 1,000 hrs	$\pm 5\%$
Resistance to Soldering Heat	$\pm 2\%$
Short Time Overload	$\pm 2\%$
Dielectric Withstanding Voltage	$\pm 2\%$

Operating Temperature Range: -55°C to $+250^\circ\text{C}$



Mechanical Specifications							
Type / Code	A Body Length	B Body Width	C Body Height	D Lead Length (Bulk)	E Lead Diameter	F Standoff Height	Units
NSP 2	0.71 ± 0.02 18.0 ± 0.5	0.28 ± 0.04 7.0 ± 1.0	0.28 ± 0.04 7.0 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.026 ± 0.002 0.65 ± 0.05	-	inches mm
NSPP 2	0.71 ± 0.02 18.0 ± 0.5	0.28 ± 0.04 7.0 ± 1.0	0.28 ± 0.04 7.0 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.026 ± 0.002 0.65 ± 0.05	0.04 1.00	inches mm
NSP 3	0.87 ± 0.02 22.0 ± 0.5	0.32 ± 0.04 8.0 ± 1.0	0.32 ± 0.04 8.0 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	-	inches mm
NSPP 3	0.87 ± 0.02 22.0 ± 0.5	0.32 ± 0.04 8.0 ± 1.0	0.32 ± 0.04 8.0 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	0.04 1.00	inches mm
NSP 5	0.87 ± 0.02 22.0 ± 0.5	0.39 ± 0.04 10.0 ± 1.0	0.35 ± 0.04 9.0 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	-	inches mm
NSPP 5	0.87 ± 0.02 22.0 ± 0.5	0.39 ± 0.04 10.0 ± 1.0	0.35 ± 0.04 9.0 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	0.08 2.00	inches mm
NSP 7	1.38 ± 0.02 35.0 ± 0.5	0.39 ± 0.04 10.0 ± 1.0	0.39 ± 0.04 10.0 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	-	inches mm
NSP 10	1.89 ± 0.02 48.0 ± 0.5	0.39 ± 0.04 10.0 ± 1.0	0.39 ± 0.04 10.0 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	-	inches mm
NSPP 10	1.89 ± 0.02 48.0 ± 0.5	0.39 ± 0.04 10.0 ± 1.0	0.35 ± 0.04 9.0 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	0.12 3.00	inches mm
NSP 15	1.89 ± 0.02 48.0 ± 0.5	0.49 ± 0.04 12.5 ± 1.0	0.49 ± 0.04 12.5 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	-	inches mm
NSP 20	2.36 ± 0.04 60.0 ± 1.0	0.57 ± 0.04 14.5 ± 1.0	0.53 ± 0.04 13.5 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	-	inches mm
NSPP 20	2.36 ± 0.04 60.0 ± 1.0	0.49 ± 0.04 12.5 ± 1.0	0.49 ± 0.04 12.5 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	0.12 3.00	inches mm
NSP 25	2.36 ± 0.04 60.0 ± 1.0	0.57 ± 0.04 14.5 ± 1.0	0.53 ± 0.04 13.5 ± 1.0	1.42 ± 0.12 36.0 ± 3.0	0.032 ± 0.002 0.80 ± 0.05	-	inches mm

How to Order

SEI Type		Code	Nominal Resistance	Tolerance		Packaging			
NSP		7	1.2K	5%		A			
Type	Description	Code	Tolerance		Values	Types	Qty	Description	Code
NSP	Standard	2	1%		E96	All	1,000	Bulk	A
NSPP	With Standoff	3	5%		E24				
		5							
		7							
		10							
		15							
		20							
		25							

New part number format starting January 3rd, 2011:

How to Order

1	2	3	4	5	6	7	8	9	10
N	S	P	7	J	B	1	K	2	0
Product Series		Size	Power	Tolerance		Packaging			Resistance Value
NSP	Standard	2	2W	Code	Tol	Code	Description	Size	Quantity
NSPP	With Standoff	3	3W	F	1%	B	Bulk	All sizes	1,000
		5	5W	J	5%				
		7	7W						
		10	10W						
		15	15W						
		20	20W						
		25	25W						
									Four characters with the multiplier used as the decimal holder.
									0.1 ohm = R100
									1 ohm = 1R00
									20 Kohm = 20K0