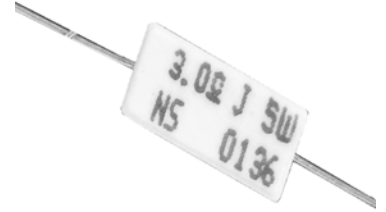


- Features:
- Flameproof construction
  - Temperature coefficient of resistance of  $\pm 200$ ppm/ $^{\circ}$ C
  - Low resistance values
  - Power derating is linear from 100% at 25 $^{\circ}$ C to zero at 250 $^{\circ}$ C
  - Also available with standoffs as NSPP
  - Other styles and configurations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

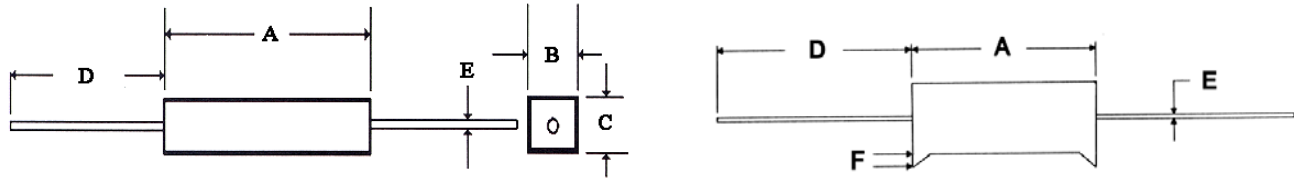


Electrical Specifications				
Type / Code	Power Rating (Watts) @ 25 $^{\circ}$ C	Maximum Working Voltage (*)	Resistance Temperature Coefficient	Ohmic Range ( $\Omega$ ) and Tolerance
				1%, 5%
NSP 2	2W	100V	$\pm 200$ ppm/ $^{\circ}$ C	0.1 - 20K
NSP 3	3W	200V	$\pm 200$ ppm/ $^{\circ}$ C	0.1 - 20K
NSP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

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

Performance Characteristics	
Test	Test Results
Moisture Resistance	$\pm 5\%$
Thermal Shock	$\pm 2\%$
Load Life @ 70 $^{\circ}$ 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 $^{\circ}$ C to +250 $^{\circ}$ 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			
<b>NSP</b>		<b>7</b>	<b>1.2K</b>	<b>5%</b>		<b>A</b>			
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 3<sup>rd</sup>, 2011:

**How to Order**

