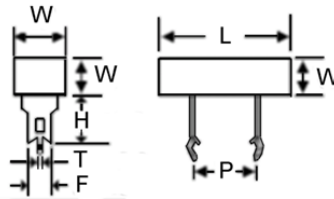


- Features:
- Special lead configurations
 - RoHS compliant / lead-free



Electrical Specifications – Lead Style 01

Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage	Resistance Range (Ω) Wirewound	Resistance Range (Ω) Metal Oxide
NSZ5...-01	5W	300V	0.1 - 220	240 - 50K
NSZ7...-01	7W	350V	0.1 - 220	240 - 50K
NSZ10...-01	10W	500V	0.1 - 220	240 - 50K

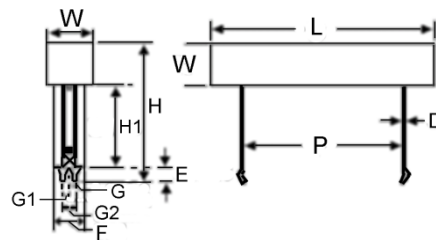


Mechanical Specifications – Lead Style 01

Type / Code	F	H	L	P	T	W	Unit
NSZ5...-01	0.21 ± 0.01 5.40 ± 0.20	0.51 ± 0.04 13.00 ± 1.00	1.06 ± 0.04 27.00 ± 1.00	0.59 ± 0.04 15.00 ± 1.00	0.06 ± 0.01 1.50 ± 0.20	0.39 ± 0.04 10.00 ± 1.00	inches mm
NSZ7...-01	0.89 ± 0.04 22.50 ± 1.00	0.89 ± 0.04 22.50 ± 1.00	1.38 ± 0.04 35.00 ± 1.00	0.89 ± 0.04 22.50 ± 1.00	0.89 ± 0.04 22.50 ± 1.00	0.39 ± 0.04 10.00 ± 1.00	inches mm
NSZ10...-01	1.38 ± 0.04 35.00 ± 1.00	1.38 ± 0.04 35.00 ± 1.00	1.89 ± 0.04 48.00 ± 1.00	1.38 ± 0.04 35.00 ± 1.00	1.38 ± 0.04 35.00 ± 1.00	0.39 ± 0.04 10.00 ± 1.00	inches mm

Electrical Specifications – Lead Style 02

Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage	Resistance Range (Ω) Wirewound	Resistance Range (Ω) Metal Oxide
NSZ3...-02	3W	200V	0.1 - 220	240 - 50K
NSZ5...-02	5W	300V	0.1 - 220	240 - 50K
NSZ7...-02	7W	350V	0.1 - 220	240 - 50K
NSZ10...-02	10W	500V	0.1 - 220	240 - 50K
NSZ15...-02	15W	500V	0.1 - 220	240 - 50K

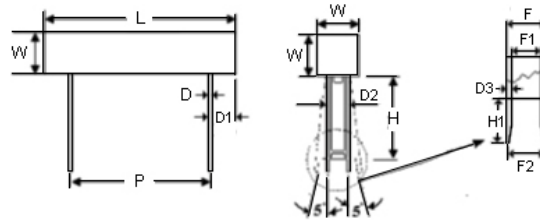


Mechanical Specifications – Lead Style 02

Type / Code	D	E	F	G	G1	G2	H	H1	L	P	W	Unit
NSZ3...-02	0.020 0.50	0.177 ± 0.020 4.50 ± 0.50	0.287 ± 0.039 7.30 ± 1.00	0.039 ± 0.008 1.00 ± 0.20	0.059 ± 0.008 1.50 ± 0.20	0.138 ± 0.008 3.50 ± 0.20	1.154 ± 0.039 29.30 ± 1.00	0.591 ± 0.079 / -0.039 15.00 ± 2.00 / -1.00	0.984 ± 0.039 25.00 ± 1.00	0.492 ± 0.039 12.50 ± 1.00	0.386 ± 0.020 9.80 ± 0.50	inches mm
NSZ5...-02	0.020 0.50	0.177 ± 0.020 4.50 ± 0.50	0.287 ± 0.039 7.30 ± 1.00	0.039 ± 0.008 1.00 ± 0.20	0.059 ± 0.008 1.50 ± 0.20	0.138 ± 0.008 3.50 ± 0.20	1.154 ± 0.039 29.30 ± 1.00	0.591 ± 0.079 / -0.039 15.00 ± 2.00 / -1.00	1.102 ± 0.039 28.00 ± 1.00	0.591 ± 0.039 15.00 ± 1.00	0.386 ± 0.020 9.80 ± 0.50	inches mm
NSZ7...-02	0.020 0.50	0.177 ± 0.020 4.50 ± 0.50	0.287 ± 0.039 7.30 ± 1.00	0.039 ± 0.008 1.00 ± 0.20	0.059 ± 0.008 1.50 ± 0.20	0.138 ± 0.008 3.50 ± 0.20	1.154 ± 0.039 29.30 ± 1.00	0.591 ± 0.079 / -0.039 15.00 ± 2.00 / -1.00	1.398 ± 0.039 35.50 ± 1.00	0.886 ± 0.039 22.50 ± 1.00	0.386 ± 0.020 9.80 ± 0.50	inches mm
NSZ10...-02	0.020 0.50	0.177 ± 0.020 4.50 ± 0.50	0.287 ± 0.039 7.30 ± 1.00	0.039 ± 0.008 1.00 ± 0.20	0.059 ± 0.008 1.50 ± 0.20	0.138 ± 0.008 3.50 ± 0.20	1.154 ± 0.039 29.30 ± 1.00	0.591 ± 0.079 / -0.039 15.00 ± 2.00 / -1.00	1.890 ± 0.039 48.00 ± 1.00	1.378 ± 0.039 35.00 ± 1.00	0.386 ± 0.020 9.80 ± 0.50	inches mm
NSZ15...-02	0.020 0.50	0.177 ± 0.020 4.50 ± 0.50	0.287 ± 0.039 7.30 ± 1.00	0.039 ± 0.008 1.00 ± 0.20	0.059 ± 0.008 1.50 ± 0.20	0.138 ± 0.008 3.50 ± 0.20	1.240 ± 0.039 31.50 ± 1.00	0.591 ± 0.079 / -0.039 15.00 ± 2.00 / -1.00	1.890 ± 0.039 48.00 ± 1.00	1.280 ± 0.039 32.50 ± 1.00	0.472 ± 0.020 12.00 ± 0.50	inches mm

Electrical Specifications – Lead Style 03

Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage	Resistance Range (Ω) Wirewound	Resistance Range (Ω) Metal Oxide
NSZ5...-03	5W	300V	0.1 - 220	240 - 50K
NSZ7...-03	7W	350V	0.1 - 220	240 - 50K
NSZ10...-03	10W	500V	0.1 - 220	240 - 50K
NSZ15...-03	15W	500V	0.1 - 220	240 - 50K

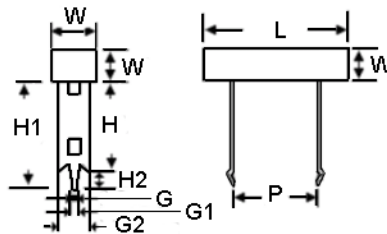


Mechanical Specifications – Lead Style 03

Type / Code	D	D1 min	D2	D3	F	F1	F2	H	H1	L	P	W	Unit
NSZ5...-03	0.018 ± 0.004 0.46 ± 0.10	0.244 6.20	0.287 ± 0.012 7.28 ± 0.31	0.044 ± 0.005 1.12 ± 0.13	0.287 7.28	0.162 4.11	0.244 ± 0.030 6.20 ± 0.76	0.394 ± 0.082 10.00 ± 2.09	0.205 ± 0.018 5.20 ± 0.46	1.063 ± 0.040 / -0.080 27.00 ± 1.02 / -2.03	0.591 ± 0.060 15.00 ± 1.52	0.394 ± 0.050 10.00 ± 1.27	inches mm
NSZ7...-03	0.018 ± 0.004 0.46 ± 0.10	0.150 3.81	0.287 ± 0.012 7.28 ± 0.31	0.044 ± 0.005 1.12 ± 0.13	0.287 7.28	0.162 4.11	0.244 ± 0.030 6.20 ± 0.76	0.981 ± 0.082 24.93 ± 2.09	0.205 ± 0.018 5.20 ± 0.46	1.433 ± 0.040 / -0.080 36.40 ± 1.02 / -2.03	0.885 ± 0.060 22.49 ± 1.52	0.394 ± 0.050 10.00 ± 1.27	inches mm
NSZ10...-03	0.018 ± 0.004 0.46 ± 0.10	0.150 3.81	0.287 ± 0.012 7.28 ± 0.31	0.044 ± 0.005 1.12 ± 0.13	0.287 7.28	0.162 4.11	0.244 ± 0.030 6.20 ± 0.76	0.981 ± 0.082 24.93 ± 2.09	0.205 ± 0.018 5.20 ± 0.46	1.889 ± 0.040 / -0.080 47.97 ± 1.02 / -2.03	1.379 ± 0.060 35.03 ± 1.52	0.387 ± 0.050 9.82 ± 1.27	inches mm
NSZ15...-03	0.018 ± 0.004 0.46 ± 0.10	0.150 3.81	0.287 ± 0.012 7.28 ± 0.31	0.044 ± 0.005 1.12 ± 0.13	0.287 7.28	0.162 4.11	0.244 ± 0.030 6.20 ± 0.76	0.981 ± 0.082 24.93 ± 2.09	0.205 ± 0.018 5.20 ± 0.46	1.889 ± 0.040 / -0.080 47.97 ± 1.02 / -2.03	1.279 ± 0.060 32.49 ± 1.52	0.492 ± 0.050 12.49 ± 1.27	inches mm

Electrical Specifications – Lead Style 04

Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage	Resistance Range (Ω) Wirewound	Resistance Range (Ω) Metal Oxide
NSZ5...-04	5W	300V	0.1 - 220	240 - 50K
NSZ7...-04	7W	350V	0.1 - 220	240 - 50K
NSZ10...-04	10W	500V	0.1 - 220	240 - 50K
NSZ15...-04	15W	700V	0.1 - 220	240 - 50K



Mechanical Specifications – Lead Style 04

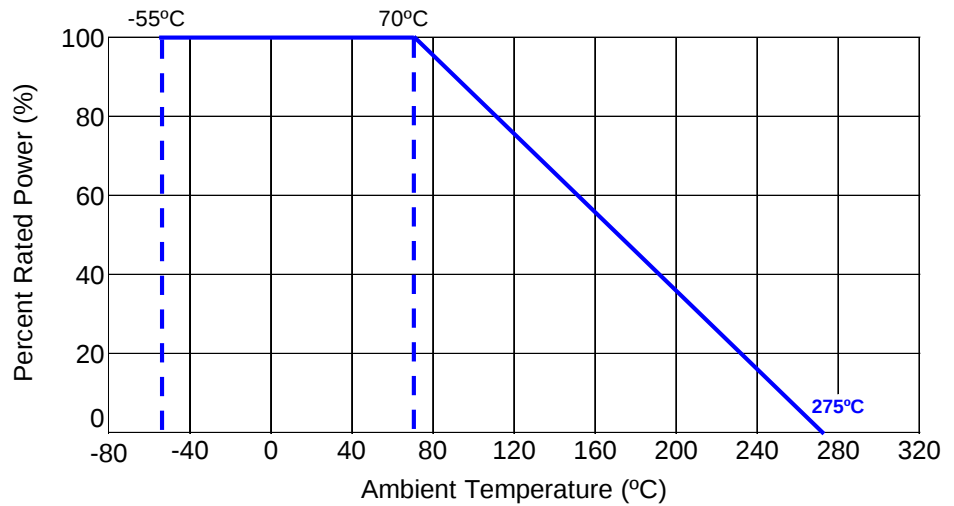
Type / Code	G	G1	G2	H	H1	H2	L	P	W	Unit
NSZ5...-04	0.04 ± 0.01 1.00 ± 0.20	0.06 ± 0.01 1.50 ± 0.20	0.19 to 0.30 4.70 to 7.60	0.98 ± 0.04 25.00 ± 1.00	1.18 ± 0.04 30.00 ± 1.00	0.18 ± 0.02 4.50 ± 0.50	1.06 max 27.00 max	0.59 ± 0.04 15.00 ± 1.00	0.39 max 10.00 max	inches mm
NSZ7...-04	0.04 ± 0.01 1.00 ± 0.20	0.06 ± 0.01 1.50 ± 0.20	0.19 to 0.30 4.70 to 7.60	0.98 ± 0.04 25.00 ± 1.00	1.26 ± 0.04 32.00 ± 1.00	0.18 ± 0.02 4.50 ± 0.50	1.38 max 35.00 max	0.94 ± 0.04 24.00 ± 1.00	0.39 max 10.00 max	inches mm
NSZ10...-04	0.04 ± 0.01 1.00 ± 0.20	0.06 ± 0.01 1.50 ± 0.20	0.19 to 0.30 4.70 to 7.60	0.98 ± 0.04 25.00 ± 1.00	1.26 ± 0.04 32.00 ± 1.00	0.18 ± 0.02 4.50 ± 0.50	1.89 max 48.00 max	1.38 ± 0.04 35.00 ± 1.00	0.39 max 10.00 max	inches mm
NSZ15...-04	0.04 ± 0.01 1.00 ± 0.20	0.06 ± 0.01 1.50 ± 0.20	0.19 to 0.30 4.70 to 7.60	0.43 ± 0.06 11.00 ± 1.60	0.61 ± 0.06 15.50 ± 1.60	0.18 ± 0.02 4.50 ± 0.50	1.89 ± 0.06 48.00 ± 1.50	1.28 ± 0.06 32.50 ± 1.50	0.50 ± 0.04 12.70 ± 1.00	inches mm

Performance Characteristics

Test	Test Results
Moisture Resistance	± 5%
Thermal Shock	± 2%
Load Life @ 70°C - 1,000 hrs.	± 5%
Resistance to Soldering Heat	± 2%
Short Time Overload - 5xPn for 5sec	± 2%
Dielectric Withstanding Voltage	± 2%

Operating Temperature Range: -55°C to +275°C

Power Derating Curve:



How to Order

1	2	3	4	5	6	7	8	9	10	-	11	12		
N	S	Z	7	J	B	1	K	0	0		0	1		
Product Series		Size	Power	Tolerance		Packaging				Resistance Value		Lead Style		
NSZ	Ceramic Housed Wirewound with Specialty Leads	3	3W	Code	Tol	Value	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder. 1 ohm = 1R00 680 ohm = 680R 50 Kohm = 50K0	Code		
		5	5W	J	5%	E24	B	Bulk	All Sizes	1,000		01		
		7	7W										02	
		10	10W										03	
		15	15W										04	

Legacy Part Number (before January 3, 2011):

SEI Type		Lead Style	Power Ratings		Nominal Resistance	Tolerance		Packaging			
NSZ		1	7		1K	5%		A			
Type	Description	Code	Code	Watts		Tolerance	Values	Types	Qty	Description	Code
NSZ	Ceramic Housed Wirewound with Specialty Leads	1	3	3W		5%	E24	All	1,000	Bulk	A
		2	5	5W							
		3	7	7W							
		4	10	10W							
			15	15W							