



www.niccomp.com/pcn | Technical Support: tpmg@niccomp.com

November 9, 2010
SUB: NIC Components PCN & EOL Notifications

RE: EOL Notification

Product Type: Axial Metal Film Resistors
NIC Series: NMR Series

THE FOLLOWING IS NOTICE THAT THE NMR SERIES IS BEING DISCONTINUED.

Last Time Buy Date: 11/20/2010
Last Time Ship Date: 12/31/2010

REASON FOR TERMINATION: LOW DEMAND

See table 1 for affected NIC part numbers*:

For alternatives NIC suggests the use of the **Resistor QuickBUILDER** (http://www.niccomp.com/products/gb_resistors.asp) to best find an alternative SMT or other Leaded Resistor

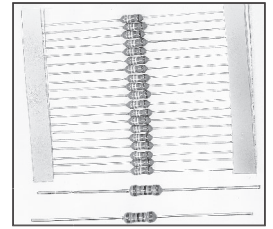
Discontinued Part Numbers
All part numbers with the prefix NMR16F
All part numbers with the prefix NMR25F
All part numbers with the prefix NMR50F
All part numbers with the prefix NMR100F

*Note: EOL includes all optional tolerances, temperature coefficients and packaging styles.

Follow NIC PCN alerts to get email notifications of EOL and PCN announcements at www.niccomp.com/pcn

FEATURES

- MEETS OR EXCEEDS MIL-R-10509E SPECIFICATIONS
- ULTRA-LOW NOISE WITH LOW TEMPERATURE COEFFICIENTS
- CLOSE TOLERANCE, PRECISION APPLICATIONS
- EIA COLOR CODING RESISTANT TO INDUSTRIAL SOLVENTS
- AVAILABLE ON TAPE AND REEL FOR AUTOMATIC INSERTION AND BULK PACK FOR SMALL PRODUCTION RUNS OR PROTOTYPES
- ECONOMICALLY PRICED



**RoHS
Compliant**

includes all homogeneous materials

STANDARD TYPES, RATINGS AND AVAILABILITY

*See Part Number System for Details

Type	NMR16	NMR25	NMR50	NMR100
Power Rating at 70°C	0.125W	0.25W	0.5W	1W
Max. Working Voltage at 70°C	150V	250V	350V	500V
Max. Overload Voltage at 70°C	300V	500V	700V	1000V
Resistance Tolerance	F ±1% (Std.)	(D) ±0.5% (Opt.) (F) ±1% (Std)	(F) ±1% (Std)	(F) ±1% (Std)
Temperature Coefficient	±50ppm/°C	10Ω ~ 1MegΩ	10Ω ~ 1MegΩ	--
	±100ppm/°C	Less than 10Ω More than 1MegΩ	Less than 10Ω More than 1MegΩ	*10Ω ~ 1MegΩ
Resistance Value Availability	E-96	E-96	E-96	E-96

* Extended resistance range available on request

PERFORMANCE CHARACTERISTICS

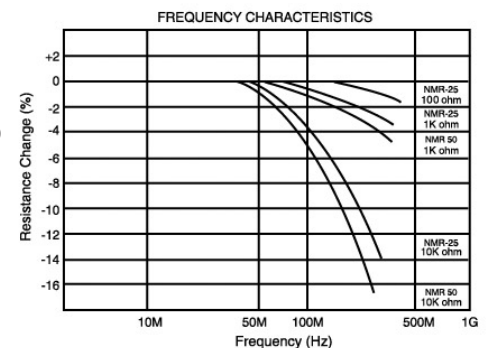
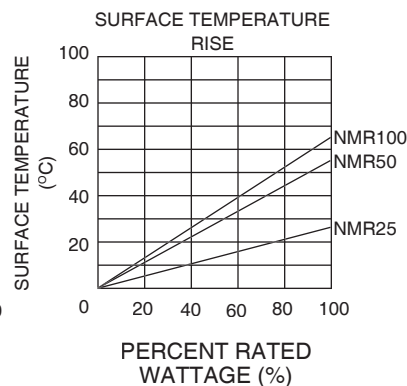
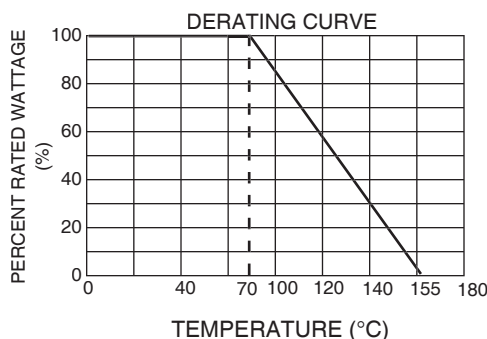
Requirements	Performance	Test Method MIL-R-10509F
Operating Temperature Range	-55 ~ +155°C	-
Temperature Coefficient	±50ppm, ±100ppm/°C	4.6.12
Temperature Cycling	$R < \pm(0.5\% + 0.05\Omega)$	4.6.6
Low Temperature Operation	$R < \pm(0.5\% + 0.05\Omega)$	4.6.5
Short Time Overload	$R < \pm(0.5\% + 0.05\Omega)$	4.6.6
Terminal Strength	$R < \pm(0.5\% + 0.05\Omega)$	4.6.7
Dielectric Withstanding Voltage	$R < \pm(0.5\% + 0.05\Omega)$	4.6.8
Insulation Resistance	10,000MΩ minimum	4.6.9
Soldering Effect	$R \leq \pm(0.5\% + 0.05\Omega)$	4.6.10
Moisture Resistance	$R \leq \pm(1\% + 0.05\Omega)$	(MIL-R_22684B, 4.6.10)
Load Life	$R \leq \pm(1\% + 0.05\Omega)$	4.6.13
Vibration	$R \leq \pm(0.5\% + 0.05\Omega)$	(MIL-R_22684B, 4.6.16)
Current Noise	0.2μV/V (-14dB)	(JIS C5202, 5.9 Method II)
Solvent Resistance	MIL-STD-202, Method 215, Trichloroethylene, Trichloroethane, Trichlorotri uoroethane	

** - Maximum allowable continuous voltage (Vdc or rms) for all resistors is the lower of the two values: "MAXIMUM WORKING VOLTAGE" as specified

or

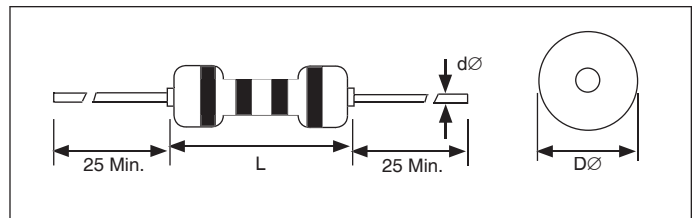
$\sqrt{\text{Power rating (WATTS x Value } (\Omega))}$

TYPICAL PERFORMANCES



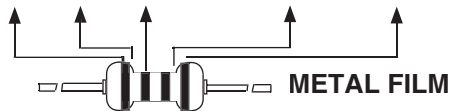
DIMENSIONS (mm)

Type	D ϕ	L	d $\phi \pm 0.05$
NMR16	1.7 $\pm$ 0.2	3.7 $\pm$ 0.4	0.45
NMR25	2.4 $\pm$ 0.4	6.4 $\pm$ 0.5	0.60
NMR50	3.2 $\pm$ 0.5	9.5 $\pm$ 0.5	0.65
NMR100	4.5 $\pm$ 0.5	11.0 $\pm$ 1.0	0.80



COLOR CODING

Color	Significant Figure			Multiplier	Tolerance
	1st	2nd	3rd		
Black	0	0	0	1	-
Brown	1	1	1	10	F ($\pm 1\%$)
Red	2	2	2	100	G ($\pm 2\%$)
Orange	3	3	3	1,000	-
Yellow	4	4	4	10,000	-
Green	5	5	5	100,00	D ($\pm 0.5\%$)
Blue	6	6	6	1,000,000	C ($\pm 0.25\%$)
Violet	7	7	7	10,000,000	B ($\pm 0.1\%$)
Grey	8	8	8	-	-
White	9	9	9	-	-
Gold	-	-	-	0.1	J ($\pm 5\%$)
Silver	-	-	-	0.01	K ($\pm 10\%$)



Significant Figures of Nominal Resistance Values (E-96 1% Tolerance)			
1.00	1.02	1.05	1.07
1.10	1.13	1.15	1.18
1.21	1.24	1.27	1.30
1.33	1.37	1.40	1.43
1.47	1.50	1.54	1.58
1.62	1.65	1.69	1.74
1.78	1.82	1.87	1.91
1.96	2.00	2.05	2.10
2.15	2.21	2.26	2.32
2.37	2.43	2.49	2.55
2.61	2.67	2.74	2.80
2.87	2.94	3.01	3.09
3.16	3.24	3.32	3.40
3.48	3.57	3.65	3.74
3.83	3.92	4.02	4.12
4.22	4.32	4.42	4.53
4.64	4.75	4.87	4.99
5.11	5.23	5.36	5.49
5.62	5.76	5.90	6.04
6.19	6.34	6.49	6.65
6.81	6.98	7.15	7.32
7.50	7.68	7.87	8.06
8.25	8.45	8.66	8.87
9.09	9.31	9.53	9.76

PART NUMBER SYSTEM

NMR	25	F	1003	TR	E
					RoHS compliant parts
				TR	Tape and Reel
					Resistance code: First 3 digits are significant, 4th digit is multiplier. Use "R" as decimal for values below 100 OHMS.
					Tolerance Code:
					F = $\pm 1\%$ (STD.)
					G = $\pm 2\%$ (OPT.)
					D = $\pm 0.5\%$ (OPT.)
					Power Ratings (Wattage Code)
					16 = .125W 50 = .50W
					Series 25 = .25W 100 = 1 WATT

PACKAGING & REEL QUANTITIES

Tape and Reel - 5K NMR16 and 25
2.5K NMR50
2K NMR100