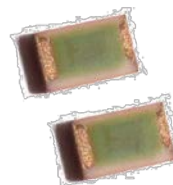


**Features:**

- NMCT series provides standard wrap-around termination, with solderable 100% matte tin plating
- Parts are marked with a white dot only
- Zero ohm jumper available (max. 0.05Ω)
- RoHS compliant



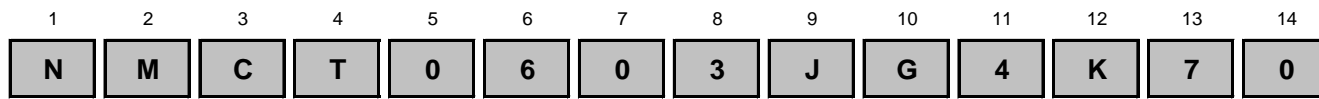
Electrical Specifications						
Type / Code	Package Size	Power Rating (Watts) @70°C	Maximum Working Voltage(1)	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance
						1% and 5%
NMCT0402	0402	0.063W	50V	100V	±200	1 - 9.76
Jumper					-	0Ω (<50mΩ)
NMCT0603	0603	0.1W	50V	100V	±200	1 - 9.76
Jumper					-	0Ω (<50mΩ)
NMCT0805	0805	0.125W	150V	300V	±200	1 - 9.76
Jumper					-	0Ω (<50mΩ)
NMCT1206	1206	0.25W	200V	400V	±200	1 - 9.76
Jumper					-	0Ω (<50mΩ)
NMCT1210	1210	0.33W	200V	400V	±200	1 - 9.76
Jumper					-	0Ω (<50mΩ)
NMCT2010	2010	0.75W	200V	400V	±200	1 - 9.76
Jumper					-	0Ω (<50mΩ)
NMCT2512	2512	1W	250V	500V	±200	1 - 9.76
Jumper					-	0Ω (<50mΩ)

Operating Voltage =  $\sqrt{P \cdot R}$  or maximum operating voltage listed above, whichever is lower.

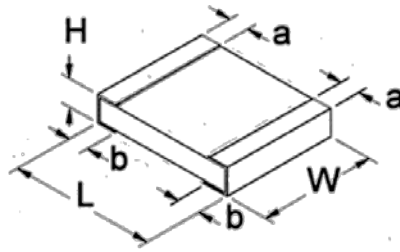
Overload Voltage =  $2.5\sqrt{P \cdot R}$  or maximum overload voltage listed above, whichever is lower.

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

**How to Order**



Product Series		Size	Power	Tolerance		Packaging				Resistance Value
NMCT	Wrap-around Solderable Termination	0402	0.063W	F	1%	T	7" Reel - Paper Tape	0402	10,000	Four characters with the multiplier used as the decimal holder. 1 ohm = 1R00 9.76 ohm = 9R76 1.02 Mohm = 1M02 10 Mohm = 10M0 Zero ohm jumper = 0R00
		0603	0.1W	J	5%			0603, 0805	5,000	
		0805	0.125W	Z	Jumper	1206, 1210	4,000			
		1206	0.25W			G	10" Reel - Paper Tape	0603, 0805	10,000	
		1210	0.33W					1206, 1210	10,000	
		2010	0.75W							
2512	1W									



Mechanical Specifications						
Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
NMCT0402	0.039 ± 0.002	0.020 ± 0.002	0.014 ± 0.002	0.008 ± 0.004	0.008 ± 0.004	inches
	1.00 ± 0.05	0.50 ± 0.05	0.35 ± 0.05	0.20 ± 0.10	0.20 ± 0.10	mm
NMCT0603	0.063 ± 0.004	0.031 ± 0.004	0.018 ± 0.004	0.012 ± 0.008	0.012 ± 0.008	inches
	1.60 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.20	mm
NMCT0805	0.079 ± 0.008	0.049 ± 0.004	0.020 ± 0.006	0.014 ± 0.008	0.016 ± 0.008	inches
	2.00 ± 0.20	1.25 ± 0.10	0.50 ± 0.15	0.35 ± 0.20	0.40 ± 0.20	mm
NMCT1206	0.126 ± 0.008	0.063 ± 0.006	0.022 ± 0.006	0.020 ± 0.010	0.020 ± 0.008	inches
	3.20 ± 0.20	1.60 ± 0.15	0.55 ± 0.15	0.50 ± 0.25	0.50 ± 0.20	mm
NMCT1210	0.126 ± 0.008	0.098 ± 0.008	0.022 ± 0.006	0.020 ± 0.010	0.020 ± 0.008	inches
	3.20 ± 0.20	2.50 ± 0.20	0.55 ± 0.15	0.50 ± 0.25	0.50 ± 0.20	mm
NMCT2010	0.197 ± 0.008	0.098 ± 0.008	0.022 ± 0.006	0.024 ± 0.010	0.020 ± 0.008	inches
	5.00 ± 0.20	2.50 ± 0.20	0.55 ± 0.15	0.60 ± 0.25	0.50 ± 0.20	mm
NMCT2512	0.248 ± 0.008	0.126 ± 0.008	0.022 ± 0.006	0.024 ± 0.010	0.020 ± 0.008	inches
	6.30 ± 0.20	3.20 ± 0.20	0.55 ± 0.15	0.60 ± 0.25	0.50 ± 0.20	mm

Performance Characteristics				
Item	Requirement			Test Method
	1%	5%	Jumper	
Short Time Overload	± (1% + 0.05Ω)	± (2% + 0.05Ω)	< 50mΩ	JIS C 5201-1 4.13; IEC 60115-1 4.13 2.5 times RCWV or max. overload voltage for 5 seconds
Insulation Resistance	≥ 10G			JIS C 5201-1 4.6; IEC 60115-1 4.6 Max. overload voltage for 1 minute
Endurance (Rated Load)	± (2% + 0.1Ω)	± (3% + 0.1Ω)	< 100mΩ	JIS C 5201-1 4.25; IEC 60115-1 4.25.1 70±2°C, Max. working voltage for 1,000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Damp Heat with Load	± (2% + 0.1Ω)	± (3% + 0.1Ω)	< 100mΩ	JIS C 5201-1 4.24 40±2°C, 90-95% R.H., Max. working voltage for 1,000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Dry Heat	± (1% + 0.05Ω)	± (1.5% + 0.1Ω)	< 50mΩ	JIS C 5201-1 4.23.2; IEC 60115-1 2.23.2 at +155°C for 1,000 hrs
Solderability	95% min. coverage			JIS-C-5201-1 4.17; IEC-60115-1 4.17 245±5°C for 3 seconds
Resistance to Soldering Heat	± (0.5% + 0.05Ω)	± (1% + 0.05Ω)	< 50mΩ	JIS-C-5201-1 4.18; IEC-60115-1 4.18 260±5°C for 10 seconds
Rapid change of Temperature	± (0.5% + 0.05Ω)	± (1% + 0.05Ω)	< 50mΩ	JIS-C-5201-1 4.19; IEC 60115-1 4.19 -55°C to +155°C, 5 cycles
Voltage Coefficient	± 100 (ppm/V)			1/10 rated voltage for 3 sec. max, then rated voltage for 3 sec. max.
Robustness of Termination	± (1% + 0.05Ω)			Bend of 3mm for 5 ± 1 sec.

Operating Temperature Range: -55°C ~ +155°C