

# NTC Thermistors



## for Inrush Current Suppression Lead Type

This product effectively suppresses surge currents which are generated when switching power regulators are turned on.

### ■ Features

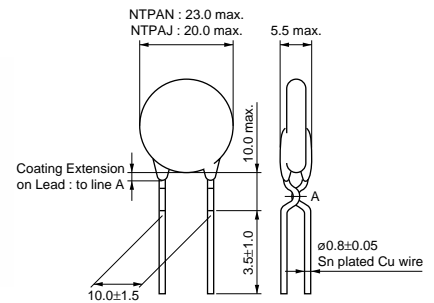
1. Lead is not contained in the ceramic element, the terminations, the solder for inner connection and the coating resin.
2. Most suitable for power supplies of less than 100W
3. Excellent recovery characteristics due to resin coating with excellent heat characteristics
4. Highly reliable

### ■ Applications

1. Switching power supplies
2. CRT monitors
3. Color televisions
4. VCR-Power supplies
5. Other power circuits



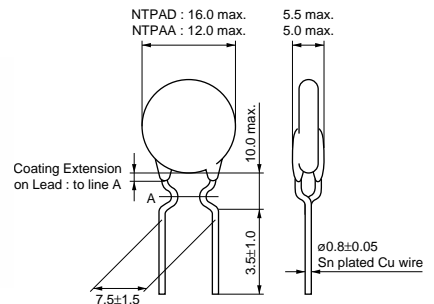
NTPAN/NTPAJ Series



(in mm)



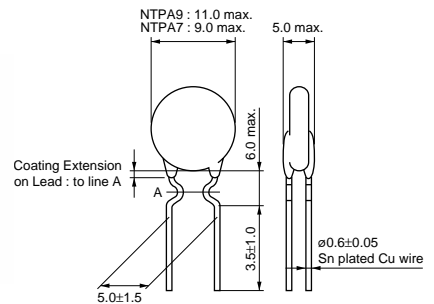
NTPAD/NTPAA Series



(in mm)



NTPA7/NTPA9 Series



(in mm)

Part Number	Resistance (25°C) (ohm)	Permissible Max. Current (25°C) (A)	Permissible Max. Current (55°C) (A)	Thermal Time Constant (25°C) (s)	Thermal Dissipation Constant (25°C) (mW/°C)
NTPAN3R0LDKB0	3.0 ±15%	5.4	4.7	135	26.8
NTPAN4R0LDKB0	4.0 ±15%	4.7	4.1	130	26.8
NTPAN6R0LDKB0	6.0 ±15%	3.9	3.4	130	26.8
NTPAJ4R0LDKB0	4.0 ±15%	4.0	3.5	125	21.8
NTPAJ6R0LDKB0	6.0 ±15%	3.4	2.9	125	21.8
NTPAJ8R0LDKB0	8.0 ±15%	3.0	2.6	130	21.8
NTPAJ100LDKB0	10.0 ±15%	2.6	2.2	130	21.8
NTPAD3R9LDNB0	3.9 ±15%	3.3	2.9	65	18.2
NTPAD5R1LDNB0	5.1 ±15%	3.0	2.6	85	18.8
NTPAD8R0LDNB0	8.0 ±15%	2.7	2.3	65	18.7
NTPAD160LDNB0	16.0 ±15%	2.0	1.7	100	19.1
NTPAA2R2LDNB0	2.2 ±15%	3.7	3.2	70	13.5

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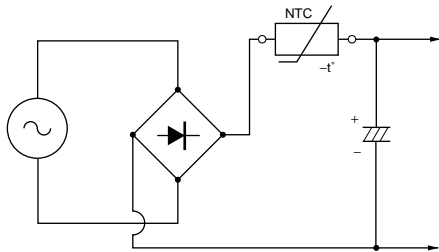
Part Number	Resistance (25°C) (ohm)	Permissible Max. Current (25°C) (A)	Permissible Max. Current (55°C) (A)	Thermal Time Constant (25°C) (s)	Thermal Dissipation Constant (25°C) (mW/°C)
NTPAA3R9LDNB0	3.9 ±15%	2.7	2.3	70	13.5
NTPAA5R1LDNB0	5.1 ±15%	2.5	2.2	70	13.5
NTPAA8R2LDNB0	8.2 ±15%	2.0	1.7	70	13.5
NTPAA100LDNB0	10.0 ±15%	1.7	1.5	70	13.5
NTPA9160LBMB0	16.0 ±15%	1.4	1.2	65	11.6
NTPA74R0LBMB0	4.0 ±15%	2.3	2.0	40	9.4
NTPA78R0LBMB0	8.0 ±15%	1.7	1.5	40	9.5
NTPA7160LBMB0	16.0 ±15%	1.2	1.0	40	9.9
NTPA7220LBMB0	22.0 ±15%	1.0	0.88	40	9.1

NTPAD/NTPAA/NTPA9/NTPA7 series are also available on tape. The final alphabet of the part number should be "DNB0=>D6A0", "BNB0 =>B1A0".  
 Operating Temperature Range: -20°C to +160°C

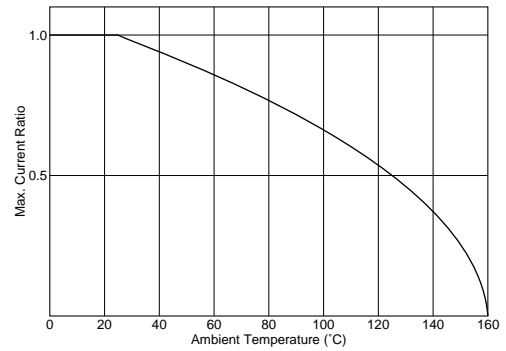
### ■ Permissible Electrolytic Capacitor

Part Number	Voltage (AC)					
	100Vrms	120Vrms	132Vrms	220Vrms	240Vrms	264Vrms
NTPAN	8600μF	5972μF	4936μF	1777μF	1493μF	1234μF
NTPAJ	5000μF	3472μF	2870μF	1033μF	868μF	717μF
NTPAD	2700μF	1875μF	1550μF	558μF	469μF	387μF
NTPAA	1400μF	972μF	803μF	289μF	243μF	201μF
NTPA9	800μF	556μF	459μF	165μF	139μF	115μF
NTPA74R0	700μF	486μF	402μF	145μF	122μF	100μF
NTPA78R0	570μF	396μF	327μF	118μF	99μF	82μF
NTPA7160	400μF	278μF	230μF	83μF	69μF	57μF
NTPA7220						

### ■ Application Circuit

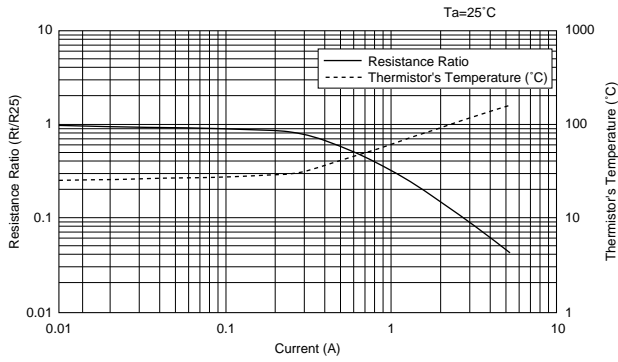


### ■ Determination of Allowable Current

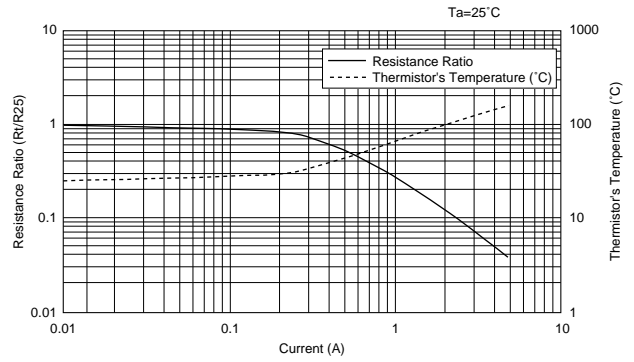


## Current - R Ratio (RT/R25)/Current - Temperature Characteristics (Typical)

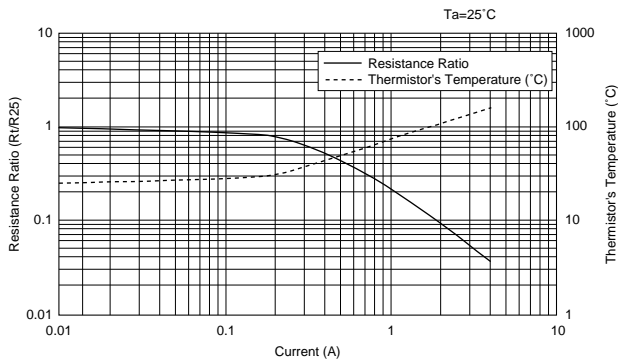
### ■ NTPAN3R0L Type



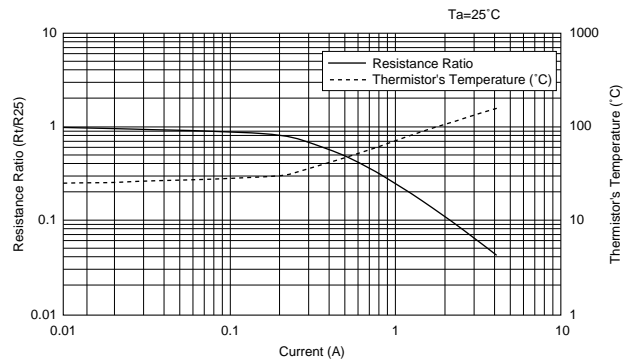
### ■ NTPAN4R0L Type



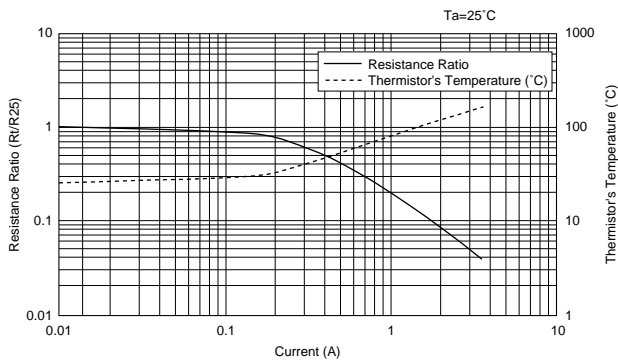
### ■ NTPAN6R0L Type



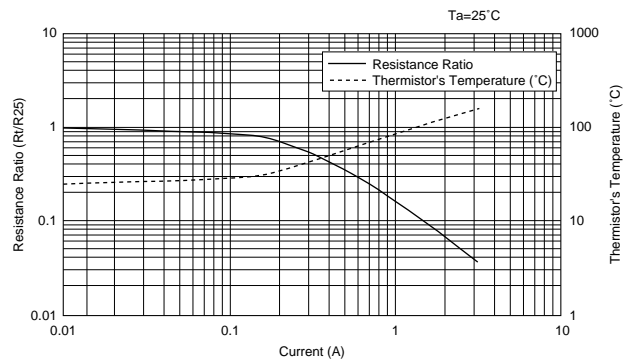
### ■ NTPAJ4R0L Type



### ■ NTPAJ6R0L Type



### ■ NTPAJ8R0L Type

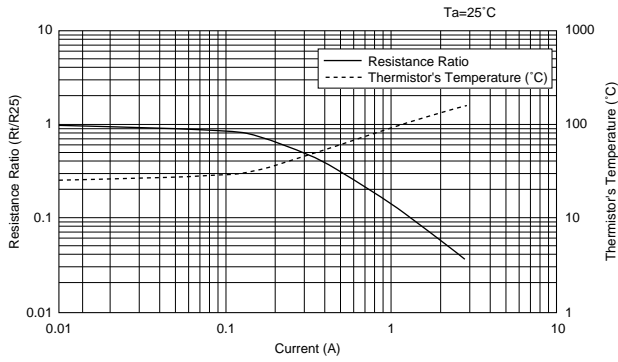


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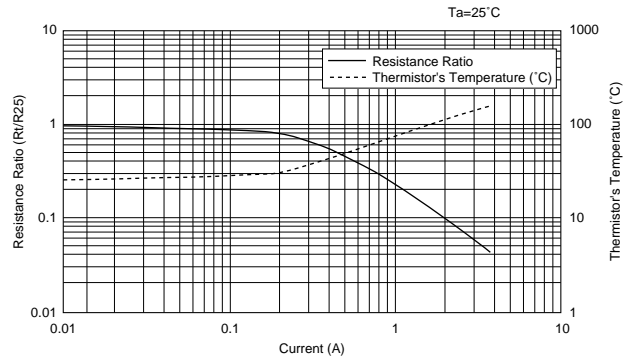
## Current - R Ratio (RT/R25)/Current - Temperature Characteristics (Typical)

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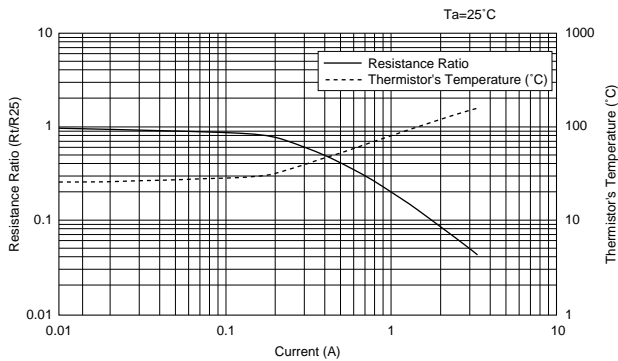
### ■ NTPAJ100L Type



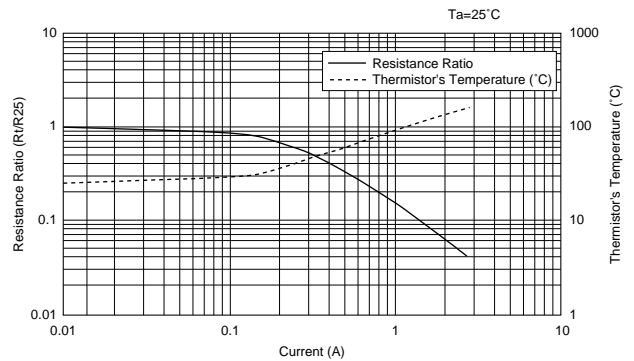
### ■ NTPAD3R9L Type



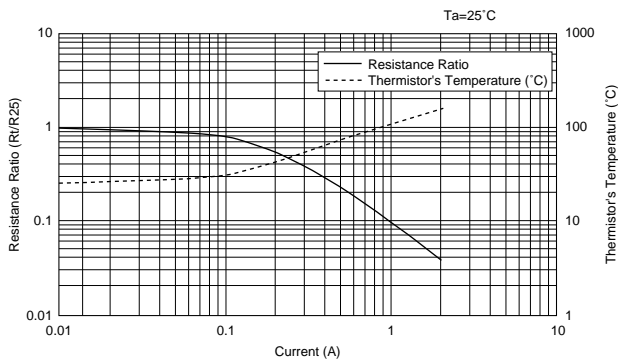
### ■ NTPAD5R1L Type



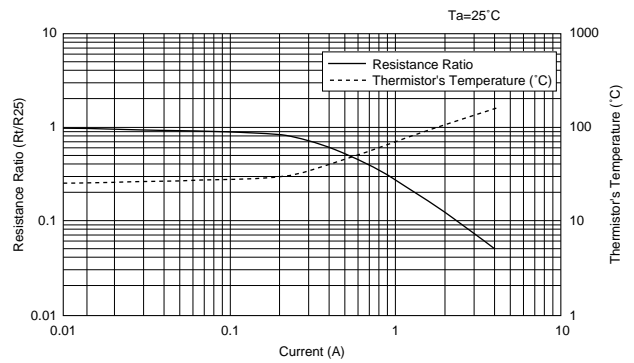
### ■ NTPAD8R0L Type



### ■ NTPAD160L Type



### ■ NTPAA2R2L Type

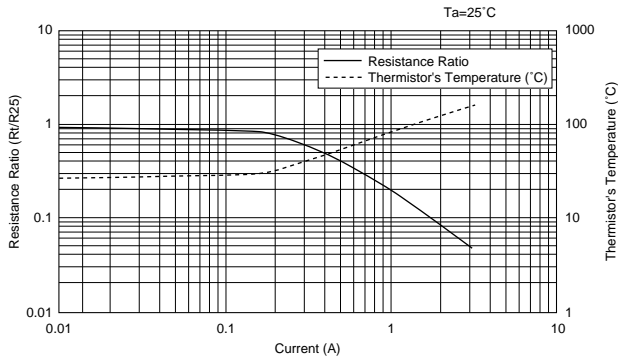


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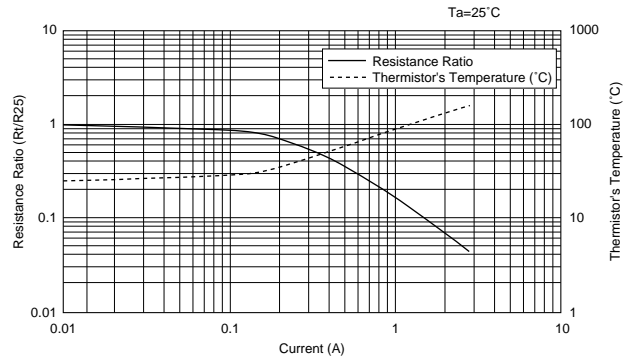
## Current - R Ratio (RT/R25)/Current - Temperature Characteristics (Typical)

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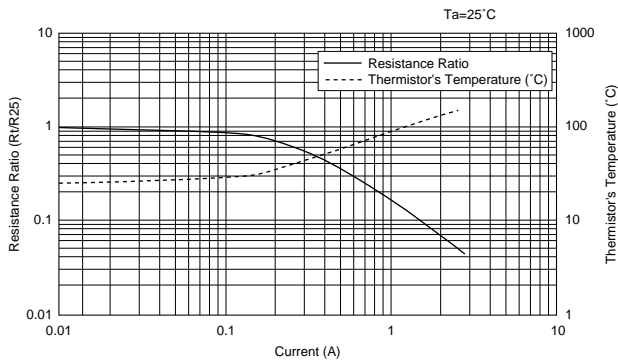
### ■ NTPAA3R9L Type



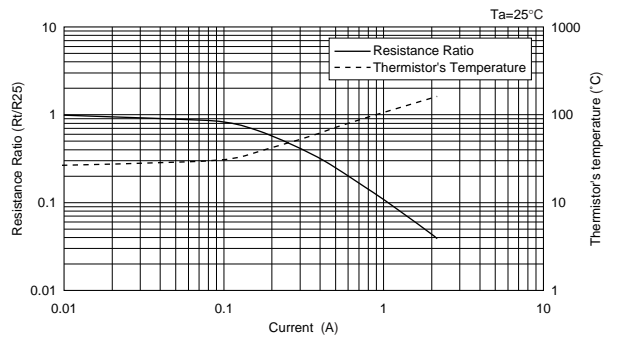
### ■ NTPAA5R1L Type



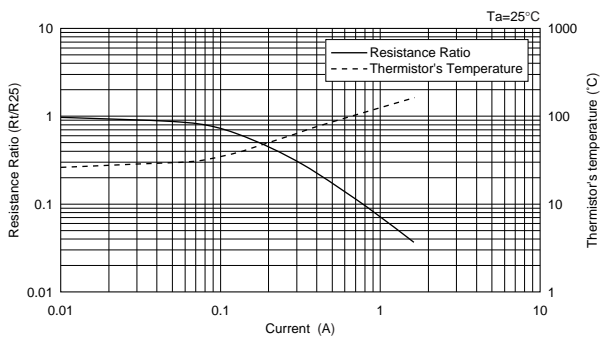
### ■ NTPAA8R2L Type



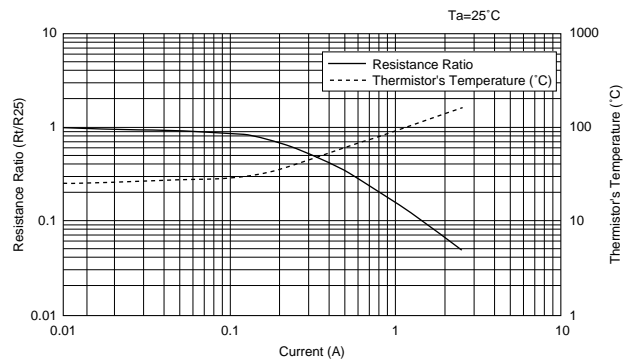
### ■ NTPAA100L Type



### ■ NTPA9160L Type



### ■ NTPA74R0L Type

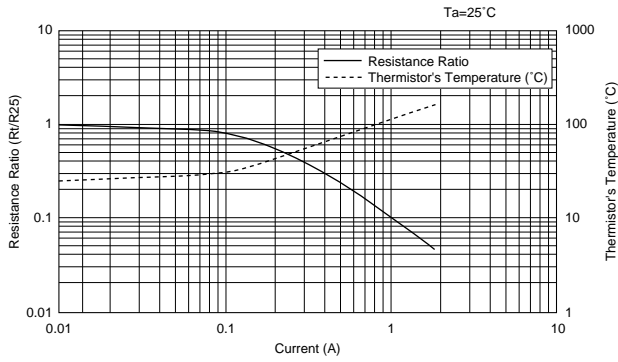


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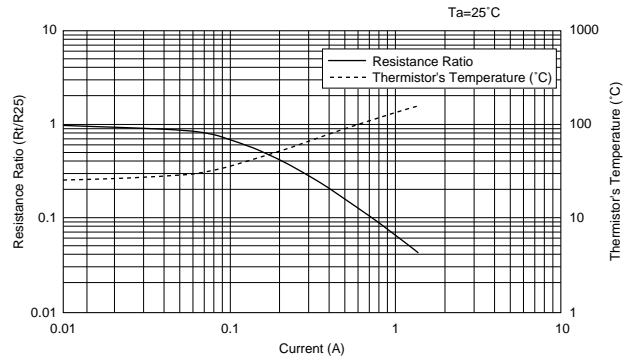
## Current - R Ratio (RT/R25)/Current - Temperature Characteristics (Typical)

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### ■ NTPA78R0L Type



### ■ NTPA7160L Type



### ■ NTPA7220L Type

