

NTC Power Thermistor for Limiting Inrush Current



NTIC Series

MERITEK

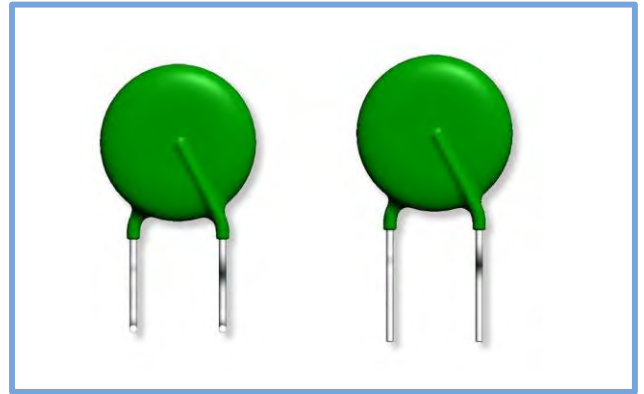
FEATURES

- Body size: $\Phi 5\text{mm} \sim \Phi 30\text{mm}$
- Radial lead resin coated
- High power rating
- Wide resistance range
- Cost effective
- Operating temperature range:
 $\Phi 5\text{mm}$: $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$
 $\Phi 8 \sim \Phi 10\text{mm}$: $-40^{\circ}\text{C} \sim 170^{\circ}\text{C}$
 $\Phi 13 \sim \Phi 30\text{mm}$: $-40^{\circ}\text{C} \sim 200^{\circ}\text{C}$

APPLICATION

- Switching mode power supply
- Electric motor
- Transformer, Adapter
- Projector
- Halogen lamp
- LED driver circuit

UL E223037



PART NUMBER SYSTEM

$\Phi 5 \sim \Phi 15\text{mm}$

Meritek NTC Thermistor Product Series

Body Size

Code	05	08	10	13	15
Size	$\Phi 5\text{mm}$	$\Phi 8\text{mm}$	$\Phi 10\text{mm}$	$\Phi 13\text{mm}$	$\Phi 15\text{mm}$

Zero Power Resistance at 25°C (R_{25})

Code	0R5	08	120
Value	0.5Ω	8Ω	120Ω

MAX Steady State Current at 25°C

Code	X3	2X	8	10
Value	0.3A	2.5A	8A	10A

Tolerance of R_{25}

Code	L	M	N
Value	$\pm 15\%$	$\pm 20\%$	$\pm 25\%$

Lead Wire Type

Code	S	Y	L
Type	Straight Lead	Y Kink	L Kink

NTIC 05 05 2 M S

$\Phi 20 \sim \Phi 30\text{mm}$

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Body Size

Code	20	25	30
Size	$\Phi 20\text{mm}$	$\Phi 25\text{mm}$	$\Phi 30\text{mm}$

Zero Power Resistance at 25°C (R_{25})

Code	0R5	8R0	121
Value	0.5Ω	8Ω	120Ω

Tolerance of R_{25}

Code	L	M	N
Value	$\pm 15\%$	$\pm 20\%$	$\pm 25\%$

Lead Wire Type

Code	S	Y	L
Type	Straight Lead	Y Kink	L Kink

NTIC 20 0R7 M Y

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SPECIFICATIONS

Part number	Zero power resistance $R_{25}(\Omega)$ @25°C	Max. current $I_{max}(A)$ @25°C	Residual resistance $R_{lmax}(\Omega)$ @25°C & I_{max}	Recommend capacitance $C_{th}(\mu F)$ @240Vac
NTIC05052□	5	2	0.429	100
NTIC05081□	8	1	1.089	68
NTIC05101□	10	1	1.126	100
NTIC05121□	12	1	1.184	68
NTIC0520X3□	20	0.3	5.560	100
NTIC08042□	4	2	0.441	220
NTIC084R72□	4.7	2	0.445	220
NTIC08053□	5	3	0.261	220
NTIC08063□	6	3	0.283	220
NTIC08073□	7	3	0.287	220
NTIC08082□	8	2	0.520	220
NTIC08102□	10	2	0.542	220
NTIC08152□	15	2	0.548	100
NTIC08201□	20	1	1.544	100
NTIC0830X□	30	0.5	4.094	100
NTIC10015□	1	5	0.091	470
NTIC101R35□	1.3	5	0.095	330
NTIC101R55□	1.5	5	0.101	330
NTIC102R55A□	2.5	5	0.120	470
NTIC10035□	3	5	0.127	560
NTIC10044□	4	4	0.161	560
NTIC10054□	5	4	0.180	470
NTIC106R83□	6.8	3	0.270	330
NTIC10083□	8	3	0.278	330
NTIC10103□	10	3	0.297	330
NTIC10123□	12	3	0.301	470
NTIC10133□	13	3	0.356	330
NTIC10152X□	15	2.5	0.442	330
NTIC10162X□	16	2.5	0.471	330
NTIC10202□	20	2	0.646	330
NTIC10222□	22	2	0.659	220
NTIC10252□	25	2	0.674	330
NTIC10302□	30	2	0.700	330
NTIC10472□	47	2	0.720	330
NTIC10502□	50	2	0.813	330
NTIC10801□	80	1	2.236	220
NTIC101001□	100	1	2.318	200
NTIC101201□	120	1	2.406	200
NTIC13013□	1	3	0.174	560
NTIC131R37□	1.3	7	0.070	470
NTIC132R56□	2.5	6	0.094	560
NTIC13045□	4	5	0.132	560
NTIC134R74□	4.7	4	0.168	560
NTIC13055□	5	5	0.166	560
NTIC13074□	7	4	0.184	470
NTIC13084□	8	4	0.206	470
NTIC13104□	10	4	0.217	470
NTIC13124□	12	4	0.230	560
NTIC13153□	15	3	0.343	560
NTIC13163□	16	3	0.348	560
NTIC13183□	18	3	0.365	560
NTIC13203□	20	3	0.410	470

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Part number	Zero power resistance R25(Ω) @25°C	Max. current I _{max} (A) @25°C	Residual resistance R _I max(Ω) @25°C & I _{max}	Recommend capacitance C _{th} (uF) @240Vac	
NTIC150R78A□	0.7	8	0.051	680	
NTIC15018□	1	8	0.054	680	
NTIC151R38□	1.3	8	0.064	680	
NTIC151R58□	1.5	8	0.068	800	
NTIC15028□	2	8	0.078	680	
NTIC152R58□	2.5	8	0.086	680	
NTIC15037□	3	7	0.091	820	
NTIC15046□	4	6	0.117	800	
NTIC15056□	5	6	0.121	820	
NTIC15065□	6	5	0.159	680	
NTIC15075□	7	5	0.161	820	
NTIC15085□	8	5	0.165	680	
NTIC15105□	10	5	0.178	820	
NTIC15125□	12	5	0.185	680	
NTIC15154□	15	4	0.261	820	
NTIC15164□	16	4	0.265	820	
NTIC15184□	18	4	0.273	680	
NTIC15204□	20	4	0.283	820	
NTIC15224□	22	4	0.308	560	
NTIC15253□	25	3	0.425	680	
NTIC15303□	30	3	0.461	680	
NTIC15333□	33	3	0.484	560	
NTIC15403□	40	3	0.511	680	
NTIC15473□	47	3	0.517	680	
NTIC15802X□	80	2.5	0.693	560	
NTIC151202□	120	2	1.010	560	
NTIC200R7□	0.7	15	0.035	1000	
NTIC201R0□	1	13	0.034		
NTIC201R5□	1.5	10.5	0.041		
NTIC202R0□	2	10	0.062		
NTIC202R5□	2.5	9	0.083		
NTIC203R0□	3	8.	0.078		
NTIC204R0□	4	8	0.080		
NTIC204R7□	4.7	7.5	0.114		
NTIC205R0□	5	7.5	0.118		
NTIC206R0□	6	7	0.120		
NTIC206R8□	6.8	6.5	0.130		
NTIC207R0□	7	6.5	0.132		
NTIC208R0□	8	6	0.161		
NTIC20100□	10	5.5	0.196		
NTIC20120□	12	5	0.197		
NTIC20130□	13	5	0.213		
NTIC20150□	15	4.5	0.258		
NTIC20160□	16	4.5	0.276		
NTIC20180□	18	4	0.280		
NTIC20200□	20	4	0.306		
NTIC251R0□	1	20	0.020		1200
NTIC251R5□	1.5	18.5	0.023		
NTIC252R0□	2	18	0.025		
NTIC252R5□	2.5	15	0.032		
NTIC253R0□	3	14.5	0.042		
NTIC254R0□	4	14	0.044		
NTIC254R7□	4.7	13	0.052		
NTIC255R0□	5	12	0.061		
NTIC256R8□	6.8	10.5	0.082		
NTIC257R0□	7	10	0.092		
NTIC258R0□	8	9	0.115		
NTIC25100□	10	8	0.141		
NTIC25120□	12	7.5	0.164		
NTIC25150□	15	6.5	0.210		
NTIC25180□	18	5.5	0.231		
NTIC25200□	20	5	0.270		

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Part number	Zero power resistance R ₂₅ (Ω) @25°C	Max. current I _{max} (A) @25°C	Residual resistance R _I max(Ω) @25°C & I _{max}	Recommend capacitance C _{th} (uF) @240Vac
NTIC301R0□	1	30	0.016	1500
NTIC301R5□	1.5	25	0.020	
NTIC302R0□	2	23	0.022	
NTIC302R5□	2.5	18	0.030	
NTIC303R0□	3	17	0.035	
NTIC304R0□	4	16	0.048	
NTIC304R7□	4.7	15	0.055	
NTIC305R0□	5	14	0.057	
NTIC306R8□	6.8	12	0.077	
NTIC307R0□	7	11.5	0.084	
NTIC308R0□	8	10.5	0.100	
NTIC30100□	10	10	0.115	
NTIC30120□	12	9	0.142	
NTIC30150□	15	8	0.175	
NTIC30180□	18	7	0.210	
NTIC30200□	20	6	0.233	

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Part number	Max. power rating P _{max} (W) @25°C	Dissipation factor δ(mW/°C)	Thermal time constant τ(second)	Operating temperature range T _L ~T _U (°C)	UL/ cUL Certified Model No.				
NTIC05052□	1.8	≈15	≈17	-40~+150	NTIC-052				
NTIC05081□					NTIC-081				
NTIC05101□					NTIC-101				
NTIC05121□					NTIC-121				
NTIC0520X3□					NTIC-20X3				
NTIC08042□	2.3	≈16	≈38	-40~+170	NTIC-042				
NTIC084R72□					NTIC-4R72				
NTIC08053□					NTIC-053				
NTIC08063□					NTIC-063				
NTIC08073□					NTIC-073				
NTIC08082□					NTIC-082				
NTIC08102□					NTIC-102				
NTIC08152□					NTIC-152				
NTIC08201□					NTIC-201				
NTIC0830X□					NTIC-30X				
NTIC10015□					NTIC-015				
NTIC101R35□	2.4	≈17	≈43	-40~+170	NTIC-1R35				
NTIC101R55□					NTIC-1R55				
NTIC102R55A□					NTIC-2R55A				
NTIC10035□					NTIC-035				
NTIC10044□					NTIC-044				
NTIC10054□					NTIC-054				
NTIC106R83□					NTIC-6R83				
NTIC10083□					NTIC-083				
NTIC10103□					NTIC-103				
NTIC10123□					NTIC-123				
NTIC10133□					NTIC-133				
NTIC10152X□					NTIC-152X				
NTIC10162X□					NTIC-162X				
NTIC10202□					NTIC-202				
NTIC10222□					NTIC-222				
NTIC10252□					NTIC-252				
NTIC10302□					NTIC-302				
NTIC10472□					NTIC-472				
NTIC10502□					NTIC-502				
NTIC10801□					NTIC-801				
NTIC101001□					NTIC-1001				
NTIC101201□					NTIC-1201				
NTIC13013□					3.1	≈18	≈16	-40~+200	NTIC-013
NTIC131R37□									NTIC-1R37
NTIC132R56□									NTIC-2R56
NTIC13045□									NTIC-045
NTIC134R74□									NTIC-4R74
NTIC13055□									NTIC-055
NTIC13074□									NTIC-074
NTIC13084□									NTIC-084
NTIC13104□									NTIC-104
NTIC13124□									NTIC-124
NTIC13153□									NTIC-153
NTIC13163□	NTIC-163								
NTIC13183□	NTIC-183								
NTIC13203□	NTIC-203								

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Part number	Max. power rating P _{max} (W) @25°C	Dissipation factor δ(mW/°C)	Thermal time constant τ(second)	Operating temperature range T _L ~T _U (°C)	UL/ cUL Certified Model No.				
NTIC150R78A□	3.6	≈21	≈75	-40~+200	NTIC-0R78A				
NTIC15018□					NTIC-018				
NTIC151R38□					NTIC-1R38				
NTIC151R58□					NTIC-1R58				
NTIC15028□					NTIC-028				
NTIC152R58□					NTIC-2R58				
NTIC15037□					NTIC-037				
NTIC15046□					NTIC-046				
NTIC15056□					NTIC-056				
NTIC15065□					NTIC-065				
NTIC15075□					NTIC-075				
NTIC15085□					NTIC-085				
NTIC15105□					NTIC-105				
NTIC15125□					NTIC-125				
NTIC15154□					NTIC-154				
NTIC15164□					NTIC-164				
NTIC15184□					NTIC-184				
NTIC15204□					NTIC-204				
NTIC15224□					NTIC-224				
NTIC15253□					NTIC-253				
NTIC15303□					NTIC-303				
NTIC15333□					NTIC-333				
NTIC15403□					NTIC-403				
NTIC15473□					NTIC-473				
NTIC15802X□					NTIC-802X				
NTIC151202□					NTIC-1202				
NTIC200R7□					4.9	≈28	≈113	-40~+200	NTIC200R7
NTIC201R0□									NTIC201R0
NTIC201R5□									NTIC201R5
NTIC202R0□									NTIC202R0
NTIC202R5□	NTIC202R5								
NTIC203R0□	NTIC203R0								
NTIC204R0□	NTIC204R0								
NTIC204R7□	NTIC204R7								
NTIC205R0□	NTIC205R0								
NTIC206R0□	NTIC206R0								
NTIC206R8□	NTIC206R8								
NTIC207R0□	NTIC207R0								
NTIC208R0□	NTIC208R0								
NTIC20100□	NTIC20100								
NTIC20120□	NTIC20120								
NTIC20130□	NTIC20130								
NTIC20150□	NTIC20150								
NTIC20160□	NTIC20160								
NTIC20180□	NTIC20180								
NTIC20200□	NTIC20200								
NTIC251R0□	7.0	≈30	≈130	-40~+200	NTIC251R0				
NTIC251R5□					NTIC251R5				
NTIC252R0□					NTIC252R0				
NTIC252R5□					NTIC252R5				
NTIC253R0□					NTIC253R0				
NTIC254R0□					NTIC254R0				
NTIC254R7□					NTIC254R7				
NTIC255R0□					NTIC255R0				
NTIC256R8□					NTIC256R8				
NTIC257R0□					NTIC257R0				
NTIC258R0□					NTIC258R0				
NTIC25100□					NTIC25100				
NTIC25120□					NTIC25120				
NTIC25150□					NTIC25150				
NTIC25180□					NTIC25180				
NTIC25200□	NTIC25200								

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Part number	Max. power rating P _{max} (W) @25°C	Dissipation factor δ(mW/°C)	Thermal time constant τ(second)	Operating temperature range T _L ~T _U (°C)	UL/ cUL Certified Model No.
NTIC301R0□	8.0	≈40	≈190	-40~+200	NTIC301R0
NTIC301R5□					NTIC301R5
NTIC302R0□					NTIC302R0
NTIC302R5□					NTIC302R5
NTIC303R0□					NTIC303R0
NTIC304R0□					NTIC304R0
NTIC304R7□					NTIC304R7
NTIC305R0□					NTIC305R0
NTIC306R8□					NTIC306R8
NTIC307R0□					NTIC307R0
NTIC308R0□					NTIC308R0
NTIC30100□					NTIC30100
NTIC30120□					NTIC30120
NTIC30150□					NTIC30150
NTIC30180□					NTIC30180
NTIC30200□					NTIC30200

Note 1: □ - tolerance of R₂₅

Note 2: Special specifications are available upon request

MAX CURRENT DERATING CURVE

T: Maximum operating temperature (°C)

T_L: Minimum operating temperature (°C)

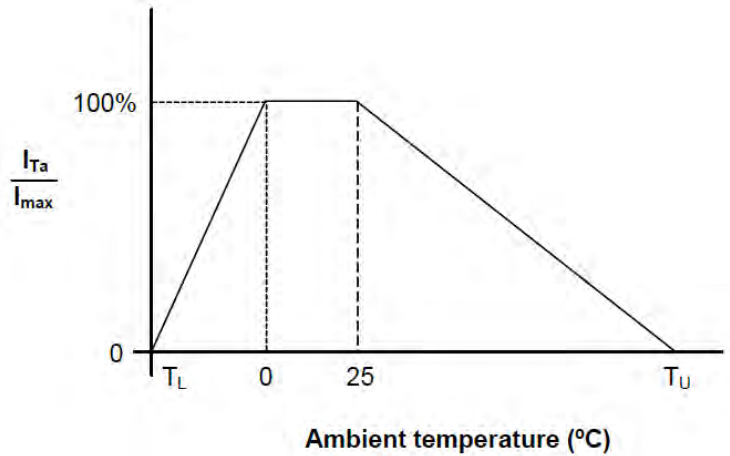
T_a: Ambient temperature

I_{Ta}: Maximum current at T_a

Example:

$$I_{Ta} = \left[1 - \frac{T_a - 25}{T_U - 25} \right] \times I_{max} = 80\% I_{max}$$

assume: T_a=60°C, T_U=200°C



NTC Power Thermistor for Limiting Inrush Current

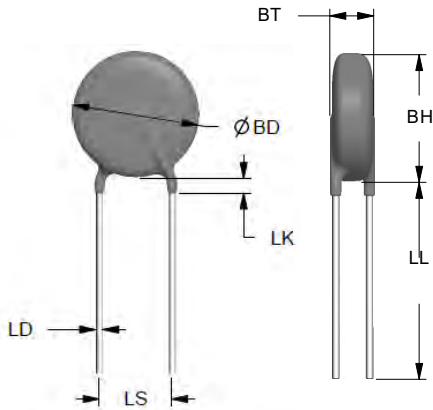


NTIC Series

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DIMENSIONS

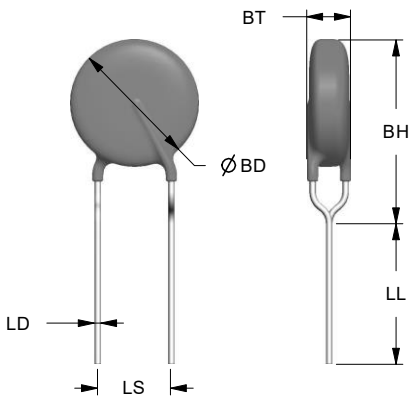
Straight lead



Series	BD _{max}	LS	LD	BH _{max}	LL _{min}	BT _{max}	LK _{max}
NTIC05	6.5	4±0.6	0.8±0.02	6.5	31	5	3
NTIC08	9.5	5±0.8	0.8±0.02	9.5	31	5	3
NTIC10	11.5	5±0.8	0.8±0.02	11.5	31	5	3
NTIC13	14.5	7.5±1	0.8±0.02	14.5	30	6	3
NTIC15	16.5	7.5±1	1.0±0.02	16.5	29	6	3
NTIC20	21.5	7.5±1	1.0±0.02	21.5	26	6	3
NTIC25	29	7.5±1	1.0±0.02	29.0	25	7	3
NTIC30	36	7.5±1	1.0±0.02	36.0	23	8	3

All Dimension in millimeters

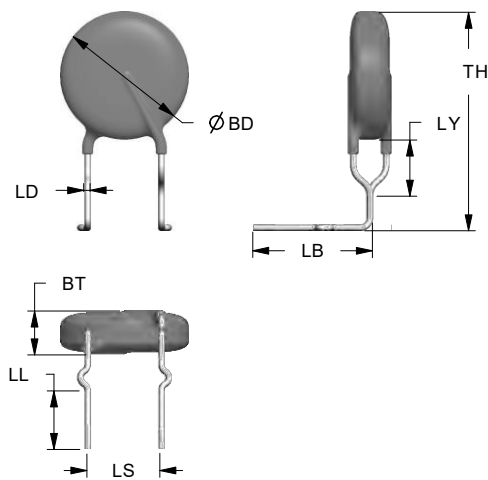
Y kink lead



Series	BD _{max}	LS	LD	BH _{max}	LL _{min}	BT _{max}
NTIC05	6.5	4±0.6	0.8±0.02	11.0	29	5
NTIC08	9.5	5±0.8	0.8±0.02	13.0	29	5
NTIC10	11.5	5±0.8	0.8±0.02	15.0	29	5
NTIC13	14.5	7.5±1	0.8±0.02	17.5	27	6
NTIC15	16.5	7.5±1	1±0.02	19.0	26	6
NTIC20	21.5	7.5±1	1±0.02	24.5	25	6
NTIC25	29	7.5±1	1±0.02	35.0	22	7
NTIC30	36	7.5±1	1±0.02	42.0	22	8

All Dimension in millimeters

L kink lead



Series	BD _{max}	LS	LD	BT _{max}	LY	TH _{max}
NTIC08	9.5	5±0.8	0.8±0.02	5	5.0±0.5	15
NTIC10	11.5	5±0.8	0.8±0.02	5	5.0±0.5	17
NTIC13	14.5	7.5±1	0.8±0.02	6	5.0±0.5	19
NTIC15	16.5	7.5±1	1±0.02	6	4.5±0.5	21
NTIC20	21.5	7.5±1	1±0.02	6	4.5±0.5	26
		LB	LL			
NTIC08	7.8±1.0	3.5±0.5				
NTIC10	7.8±1.0	3.5±0.5				
NTIC13	7.8±1.0	3.5±0.5				
NTIC15	9.0±1.0	3.5±0.5				
NTIC20	9.0±1.0	3.5±0.5				

All Dimension in millimeters

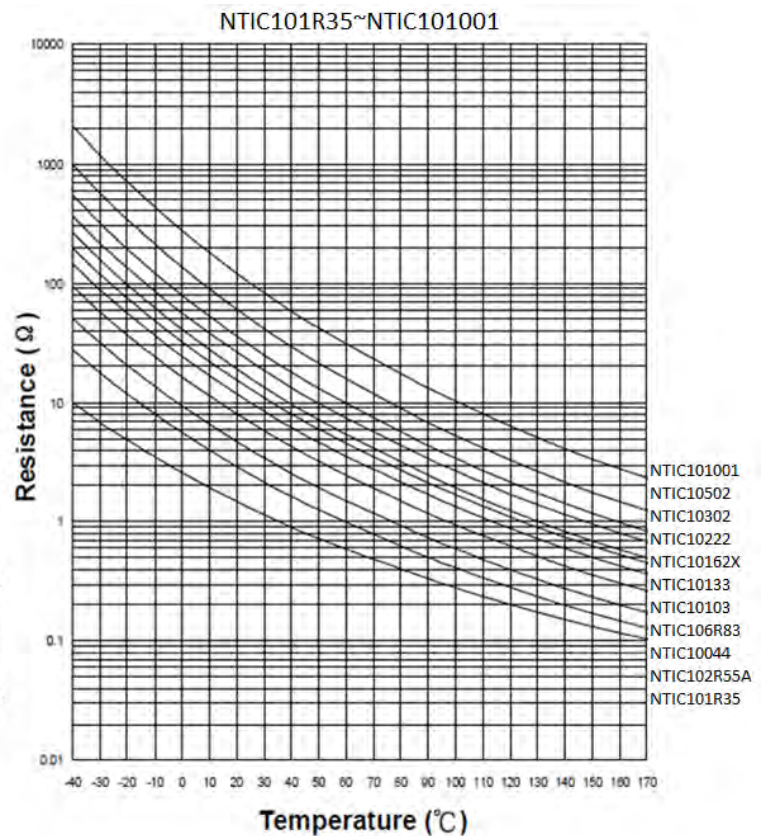
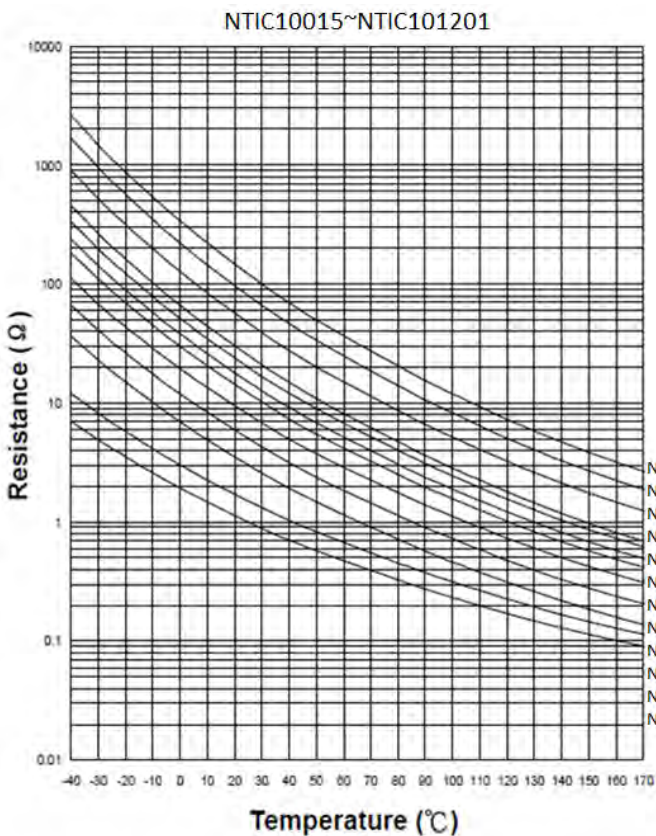
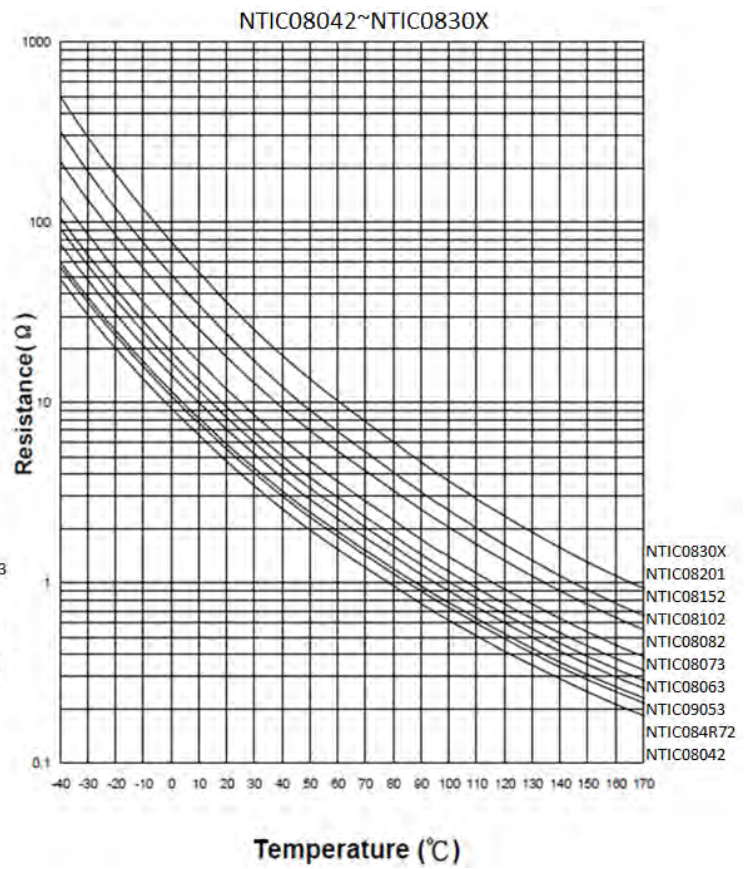
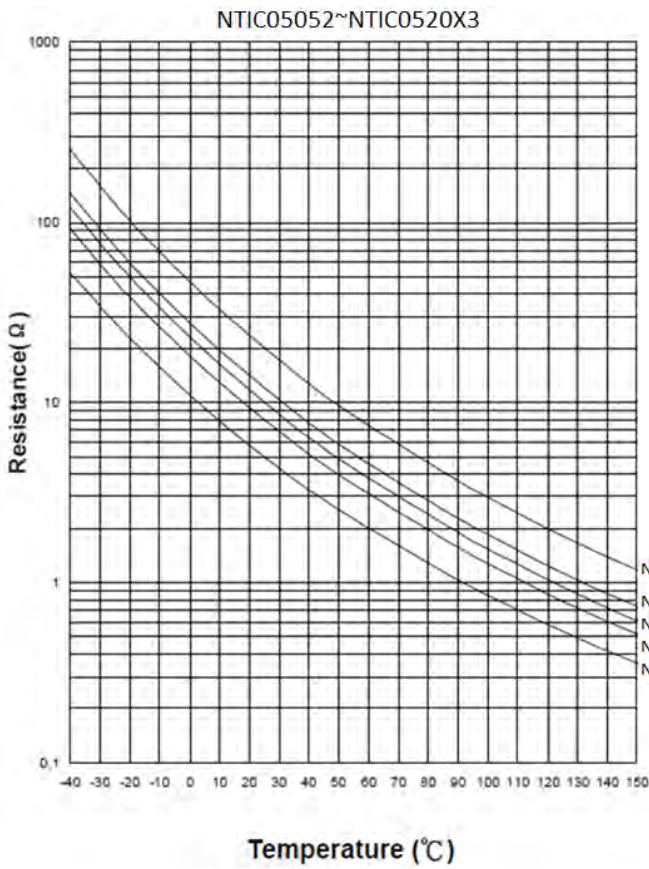
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R-T CHARACTERISTICS CURVES

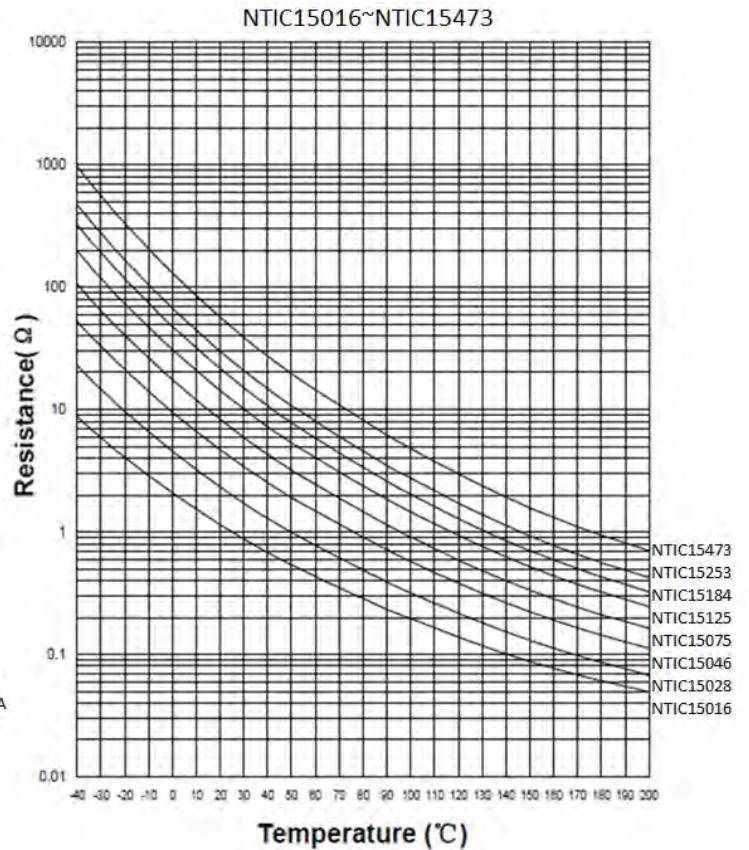
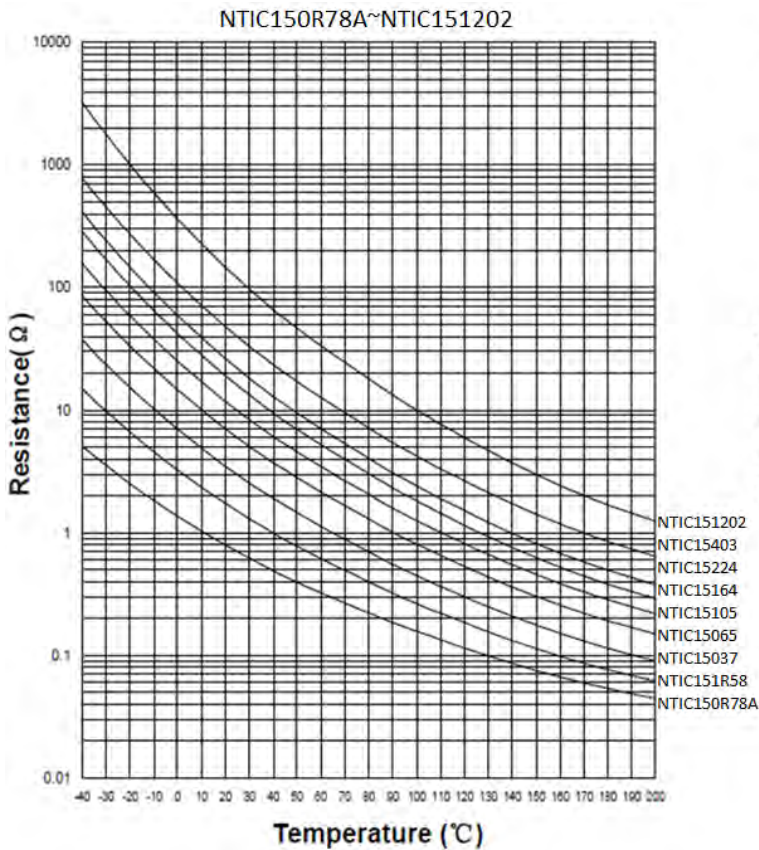
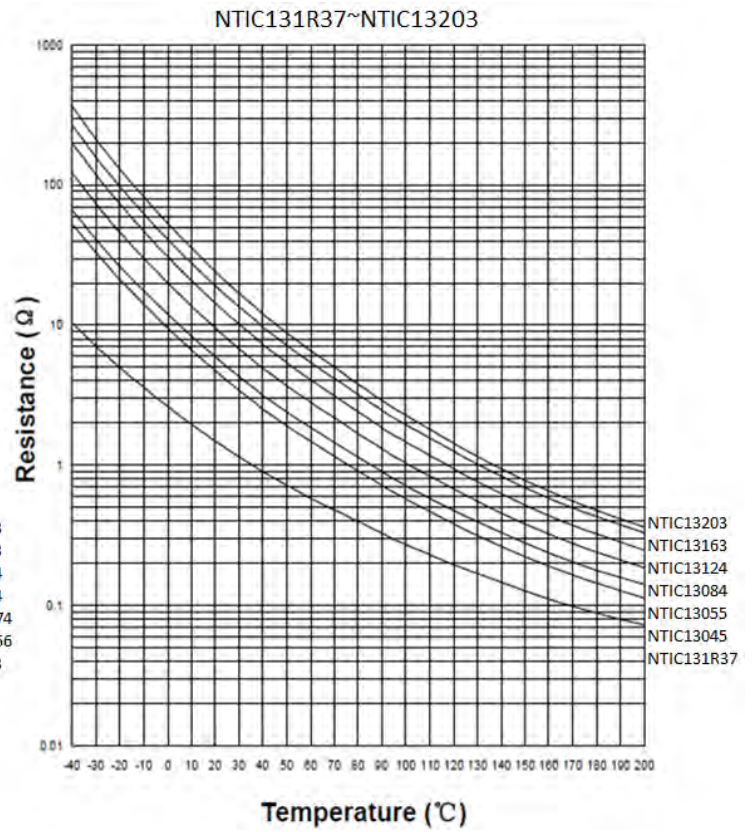
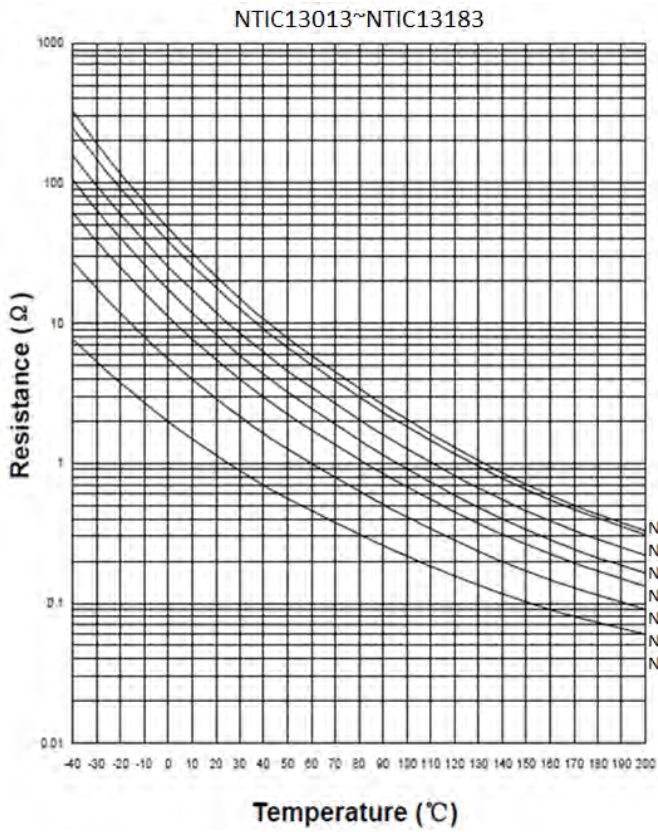


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NTIC Series

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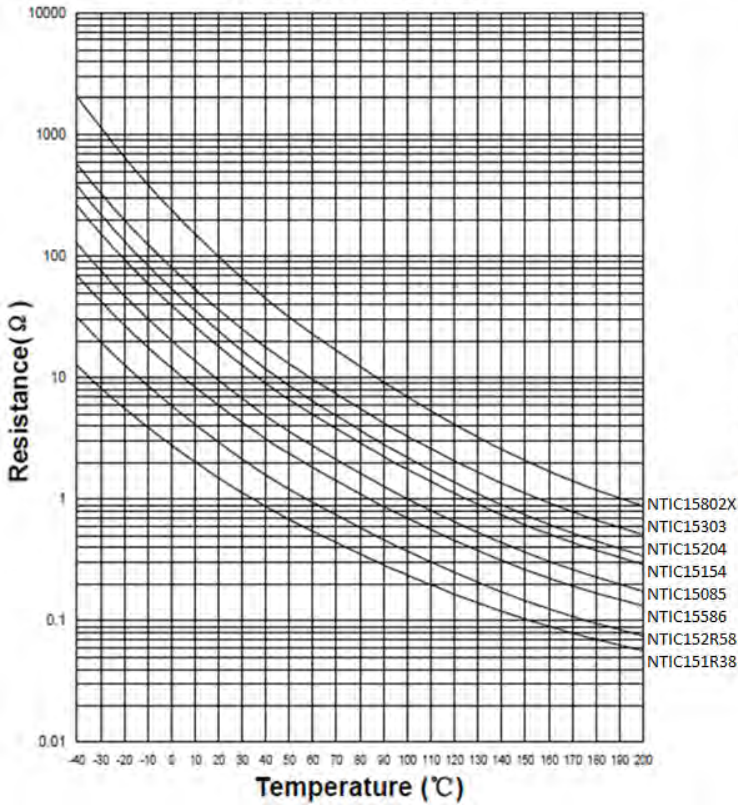
NTC Power Thermistor for Limiting Inrush Current



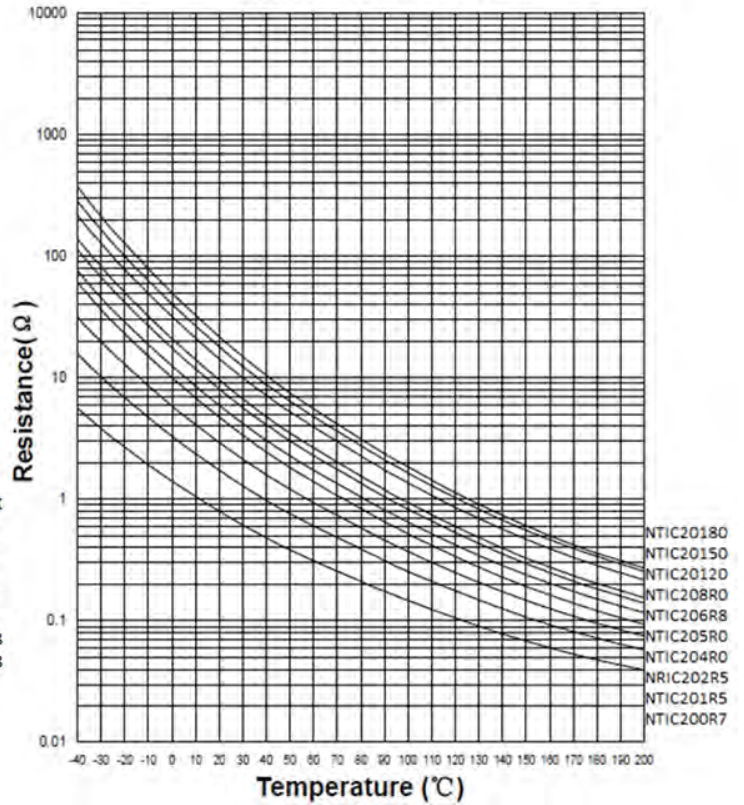
NTIC Series

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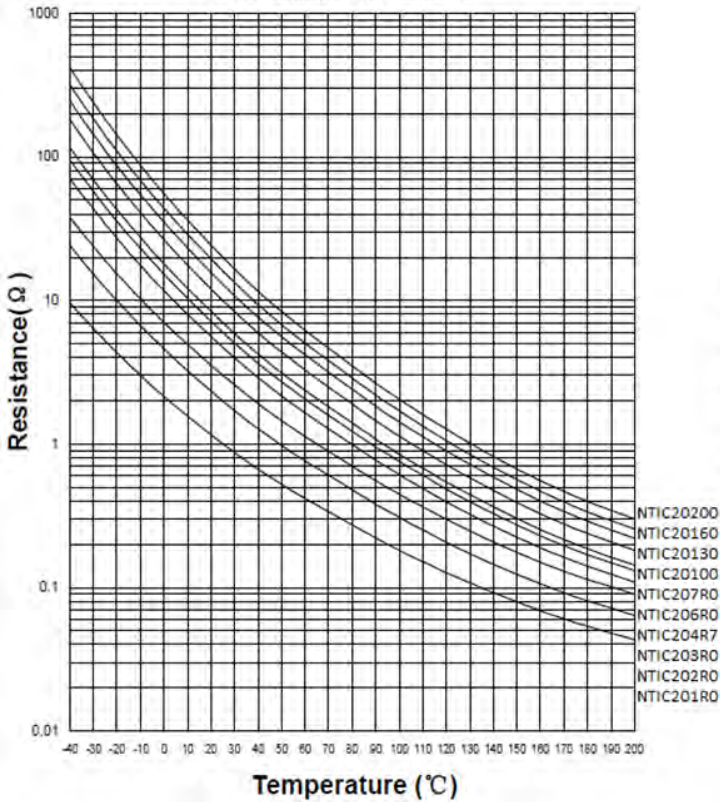
NTIC151R38~NTIC15802X



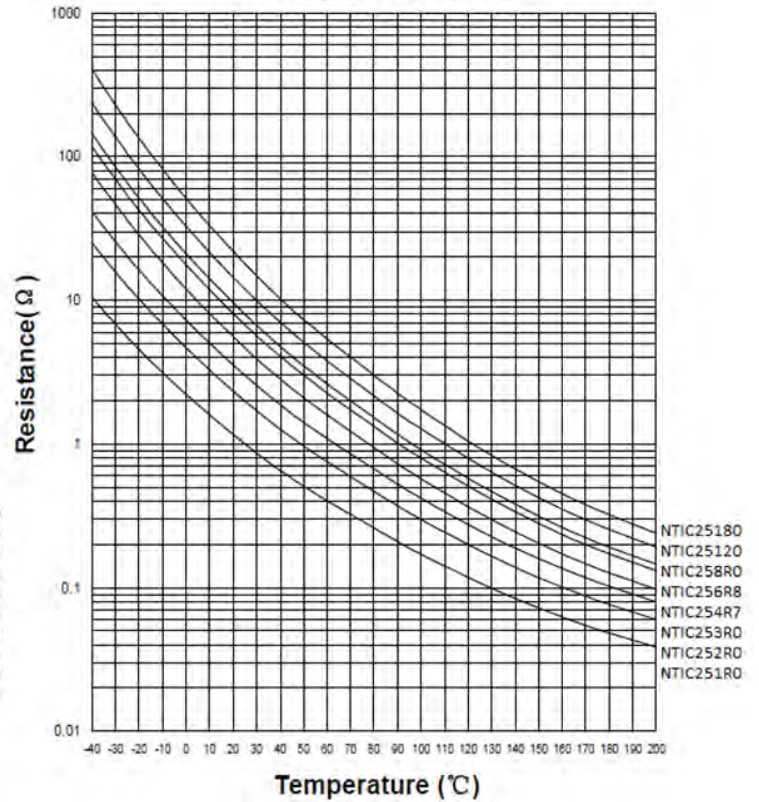
NTIC200R7~NTIC20180



NTIC201R0~NTIC20200



NTIC251R0~NTIC25180



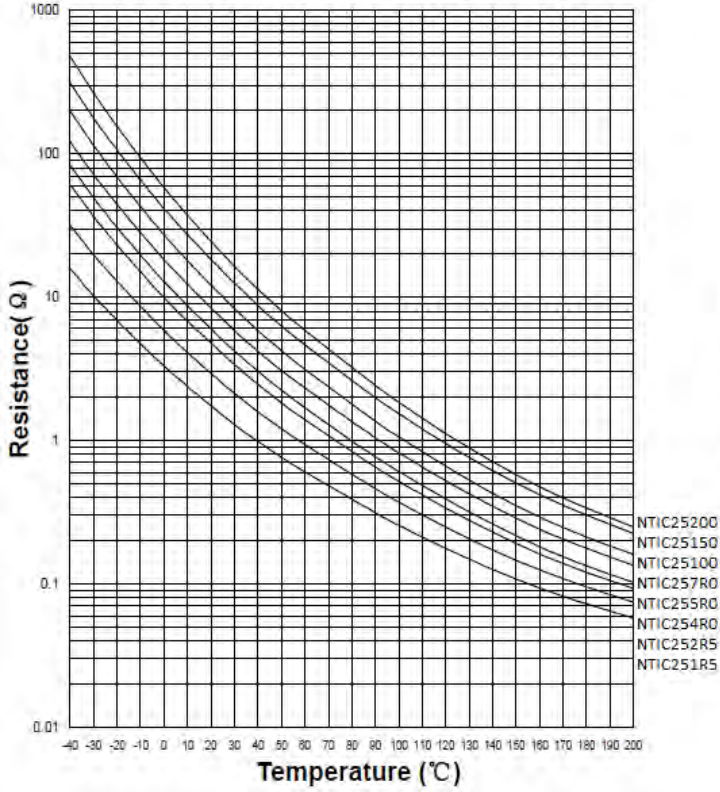
NTC Power Thermistor for Limiting Inrush Current



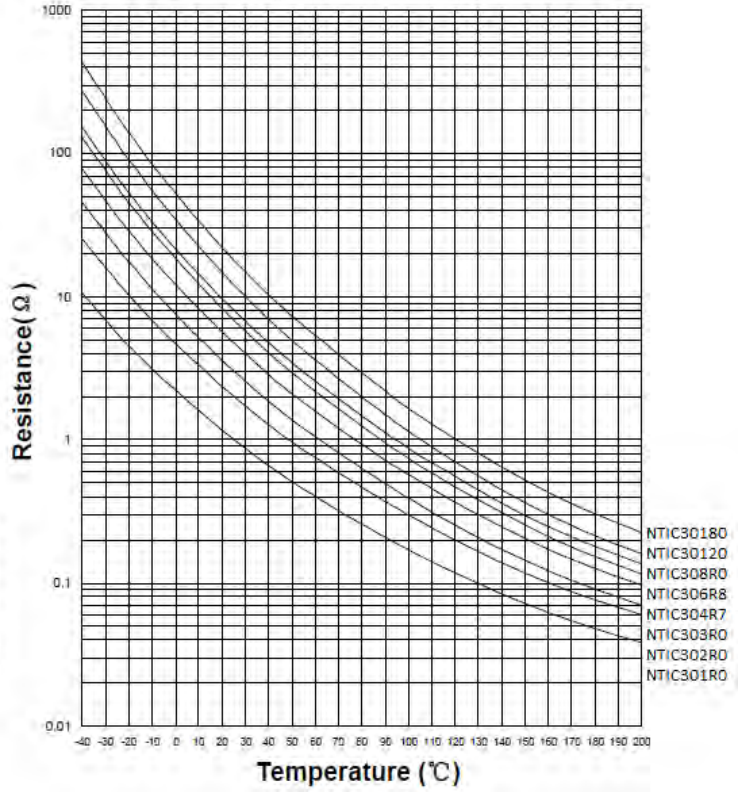
NTIC Series

MERITEK

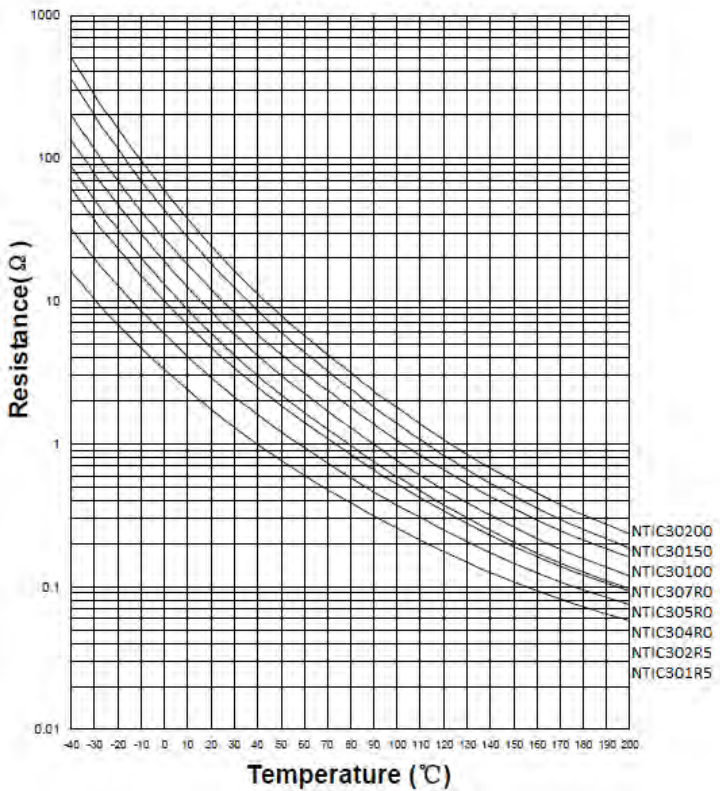
NTIC251R5~NTIC25200



NTIC301R0~NTIC30180



NTIC301R5~NTIC30200



NTC Power Thermistor for Limiting Inrush Current

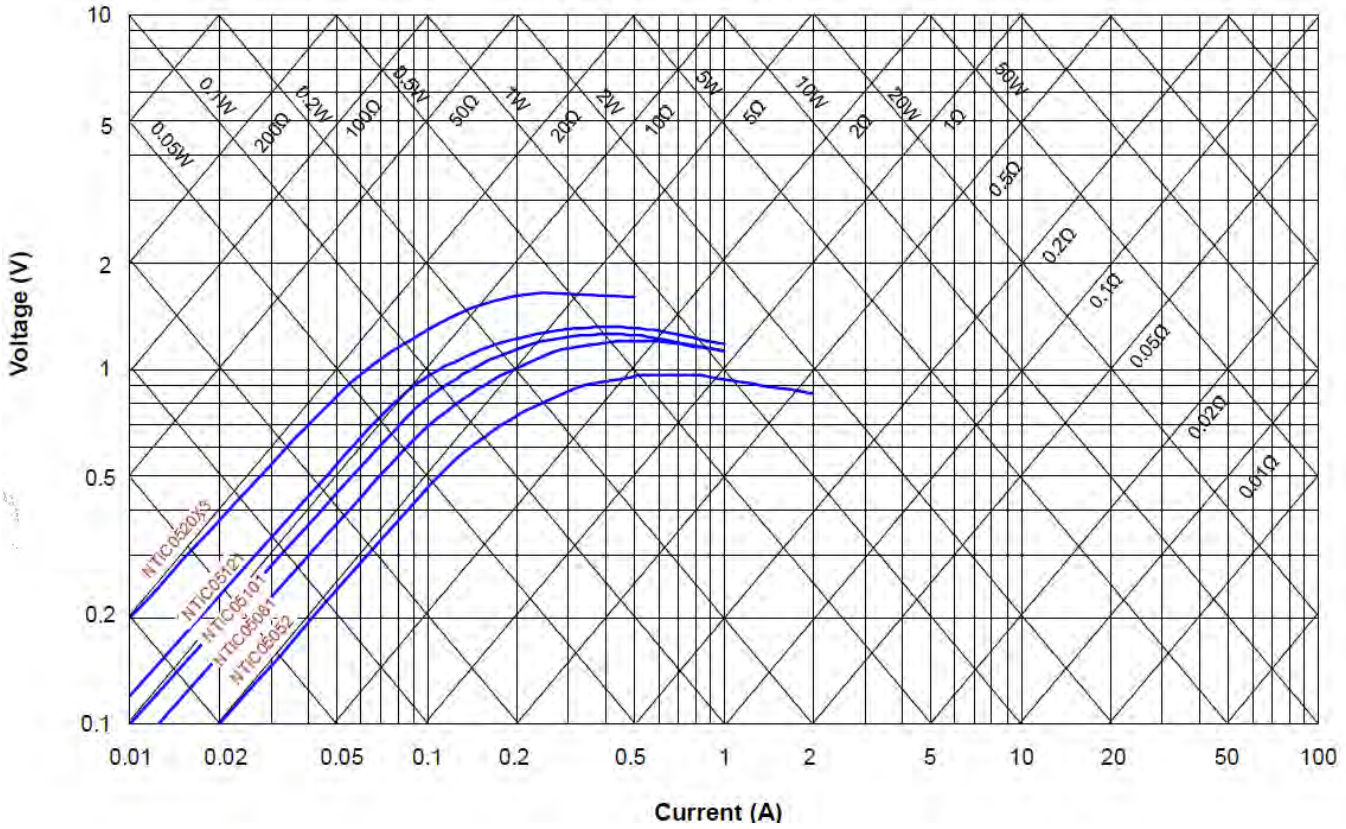


NTIC Series

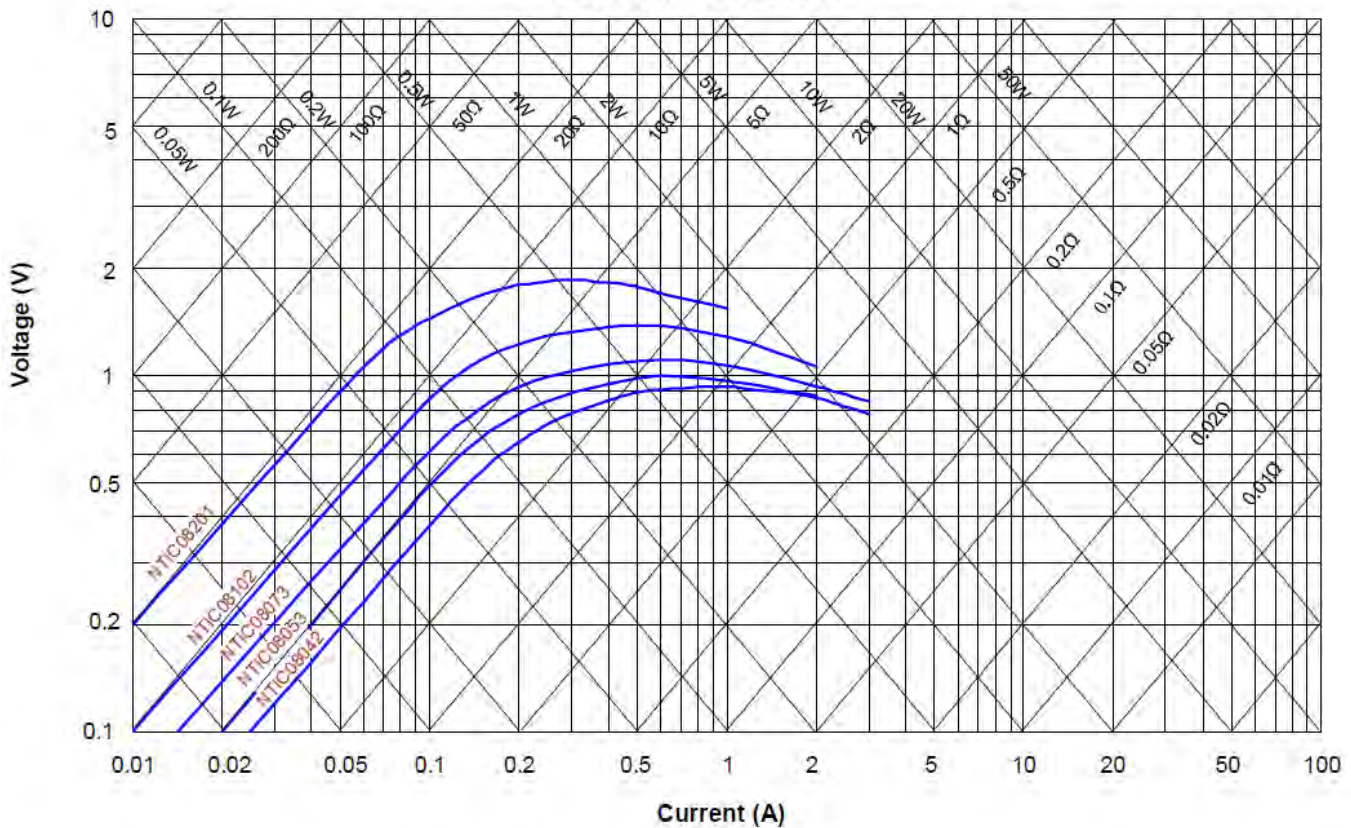
MERITEK

V-I CHARACTERISTIC CURVES (REPRESENTATIVE)

NTIC05052~NTIC0520X3



NTIC08042~NTIC08201



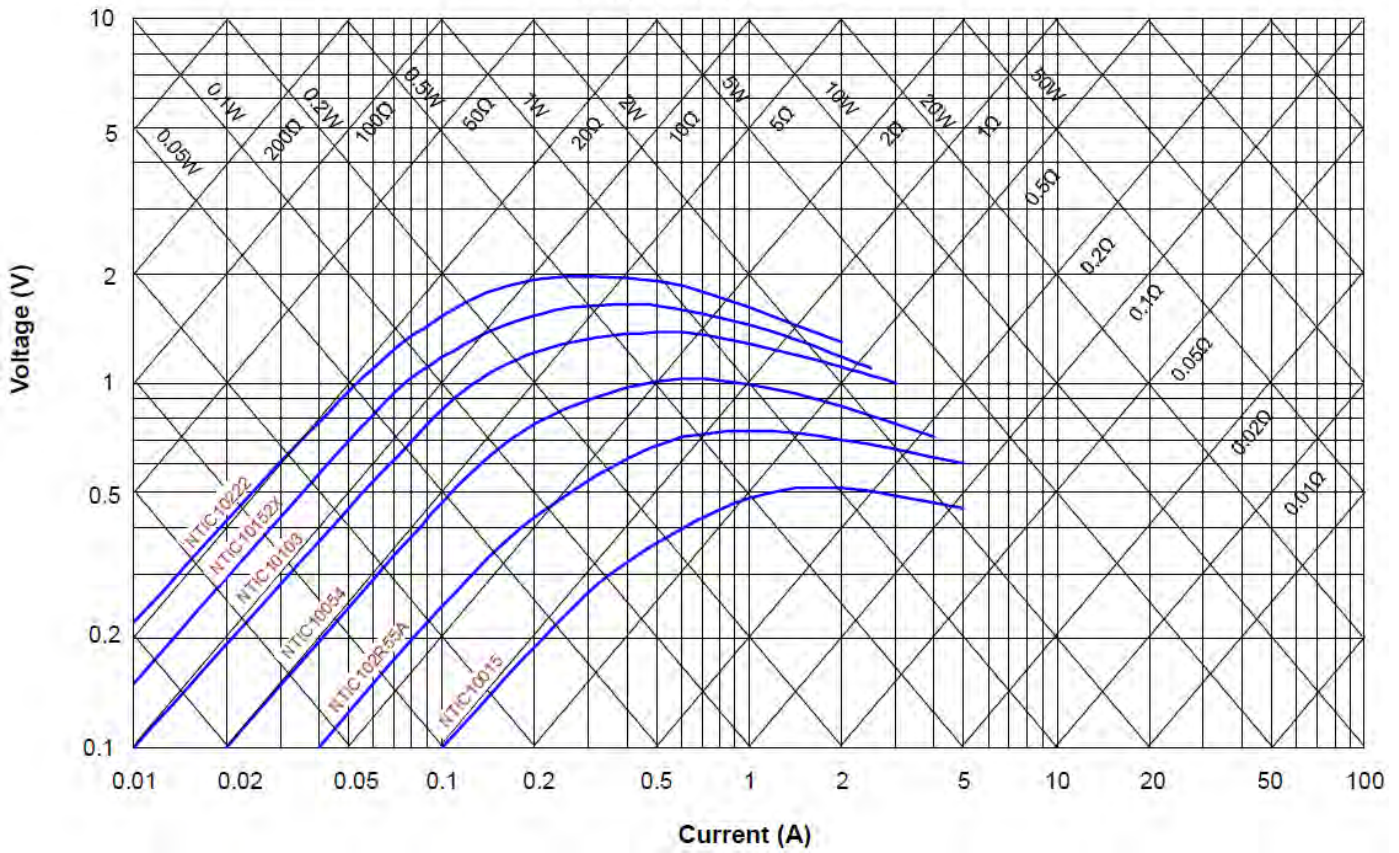
NTC Power Thermistor for Limiting Inrush Current



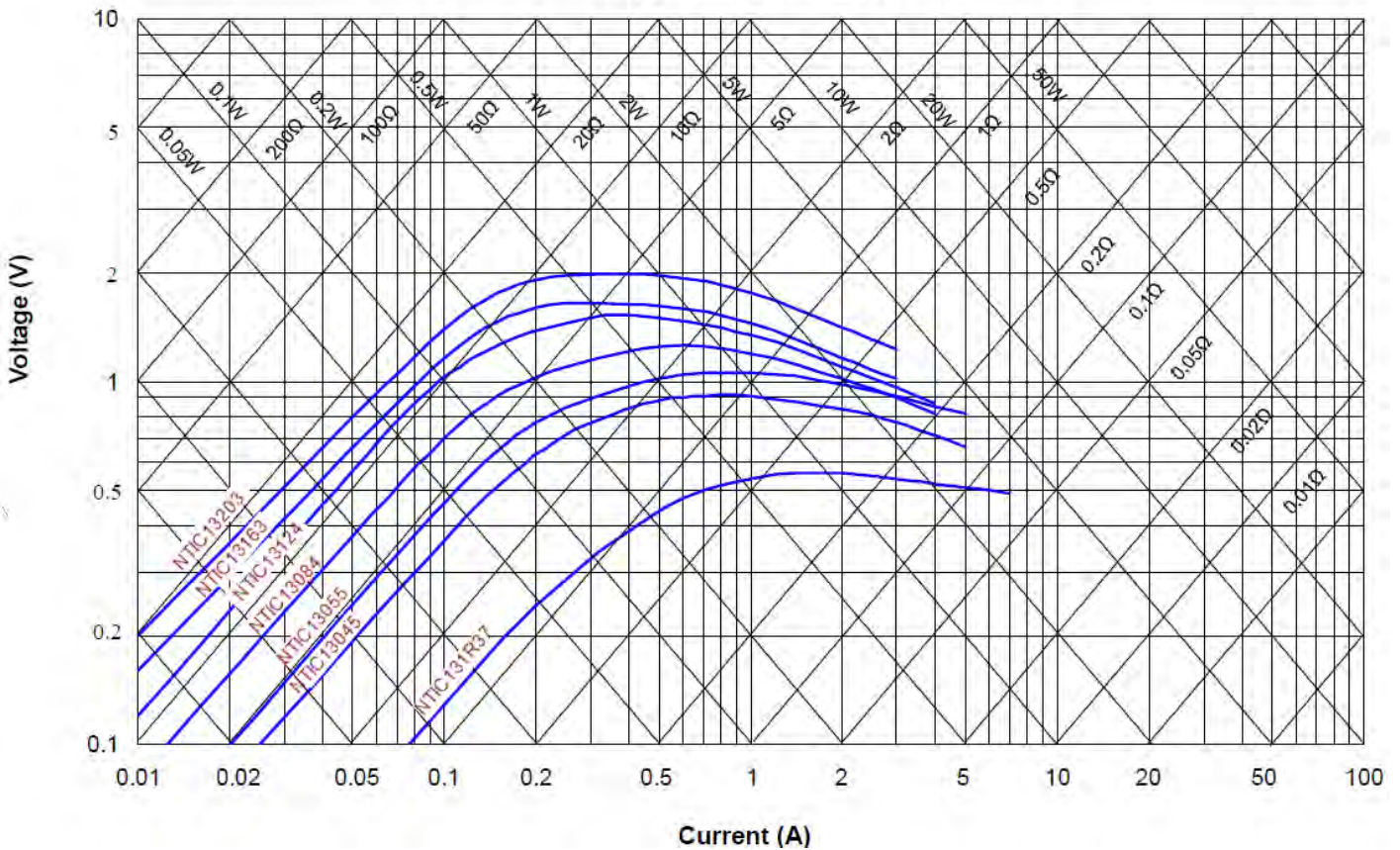
NTIC Series

MERITEK

NTIC10015~NTIC10222



NTIC131R37~NTIC13203



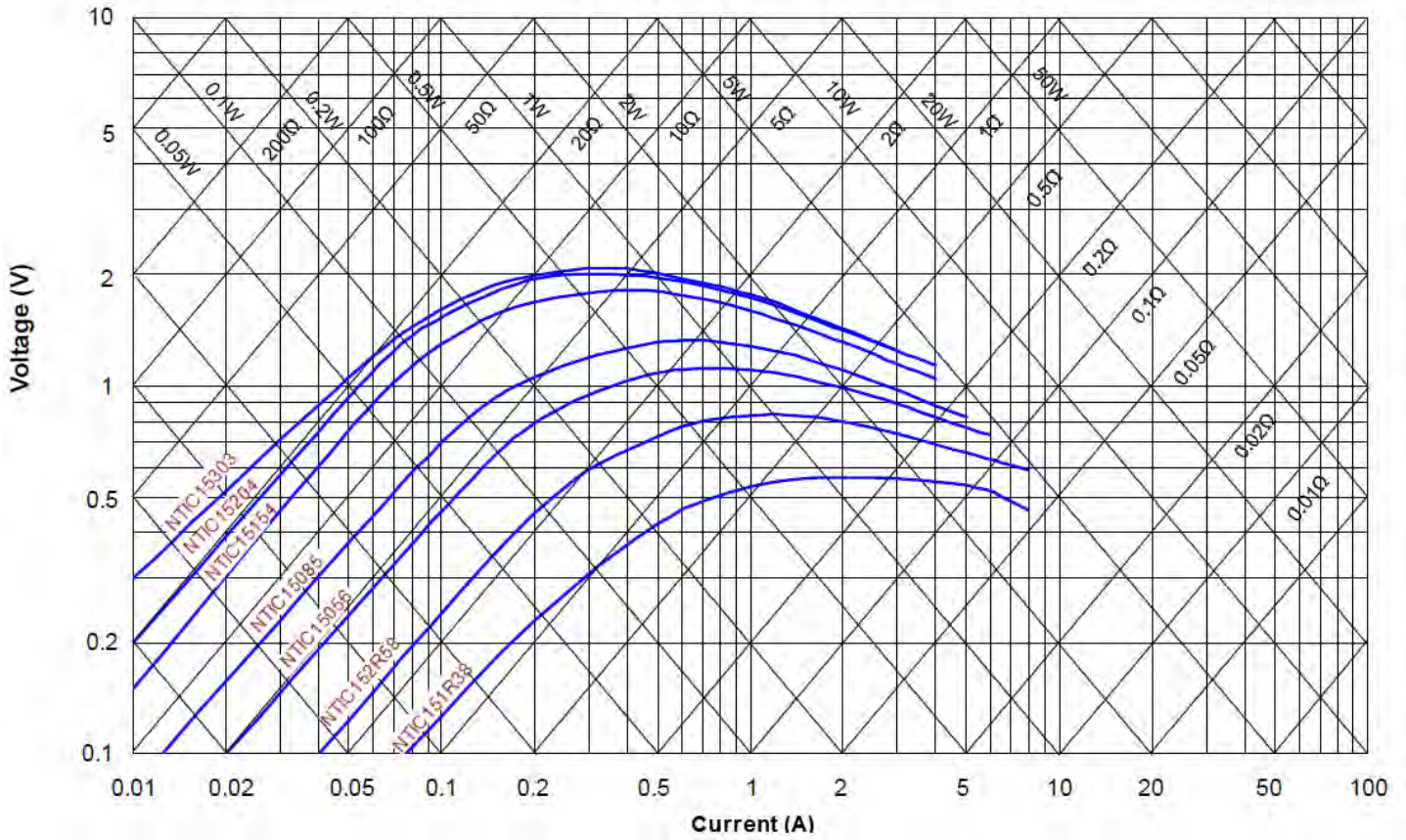
NTC Power Thermistor for Limiting Inrush Current



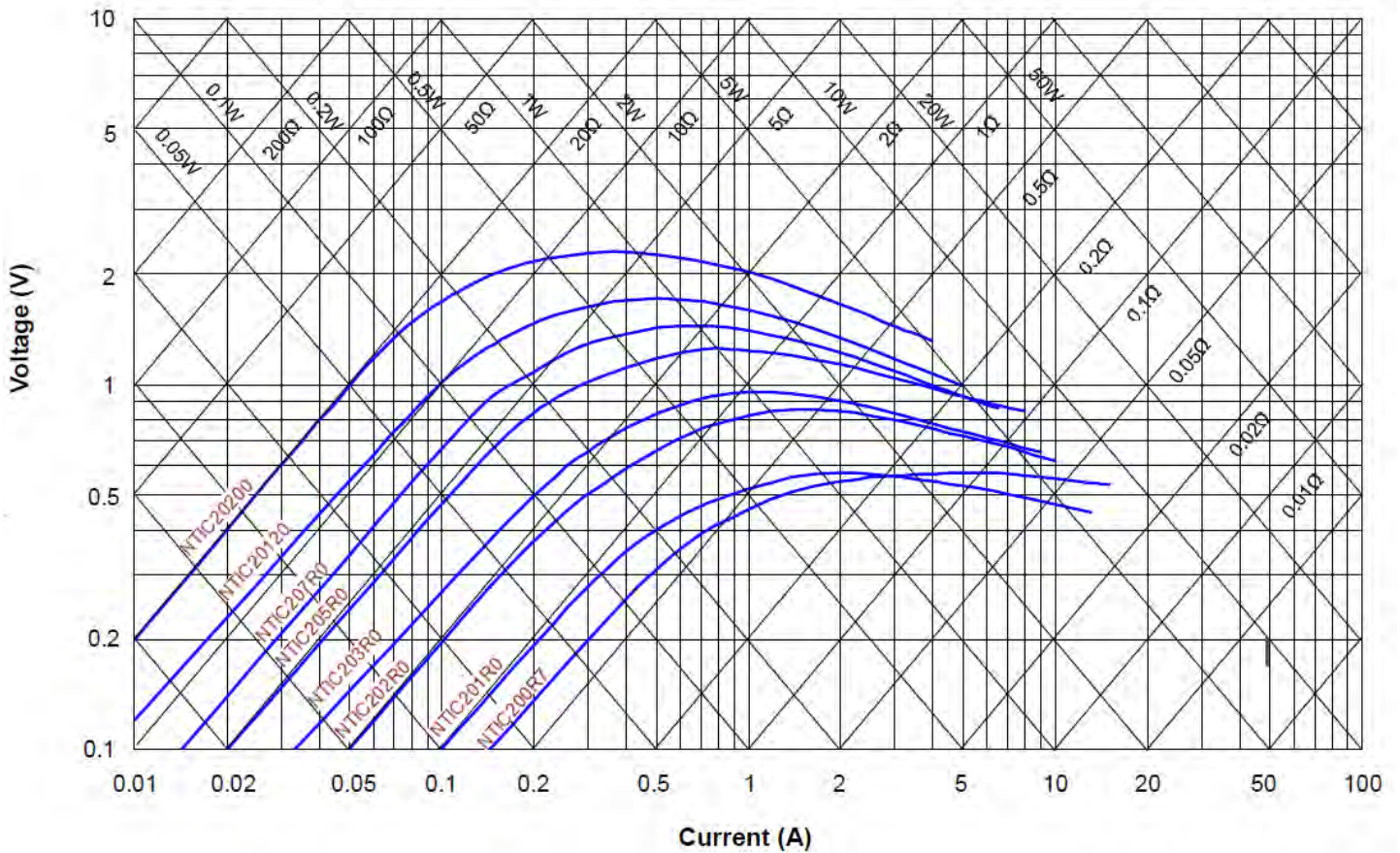
NTIC Series

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NTIC151R38-NTIC15303



NTIC200R7-NTIC20200



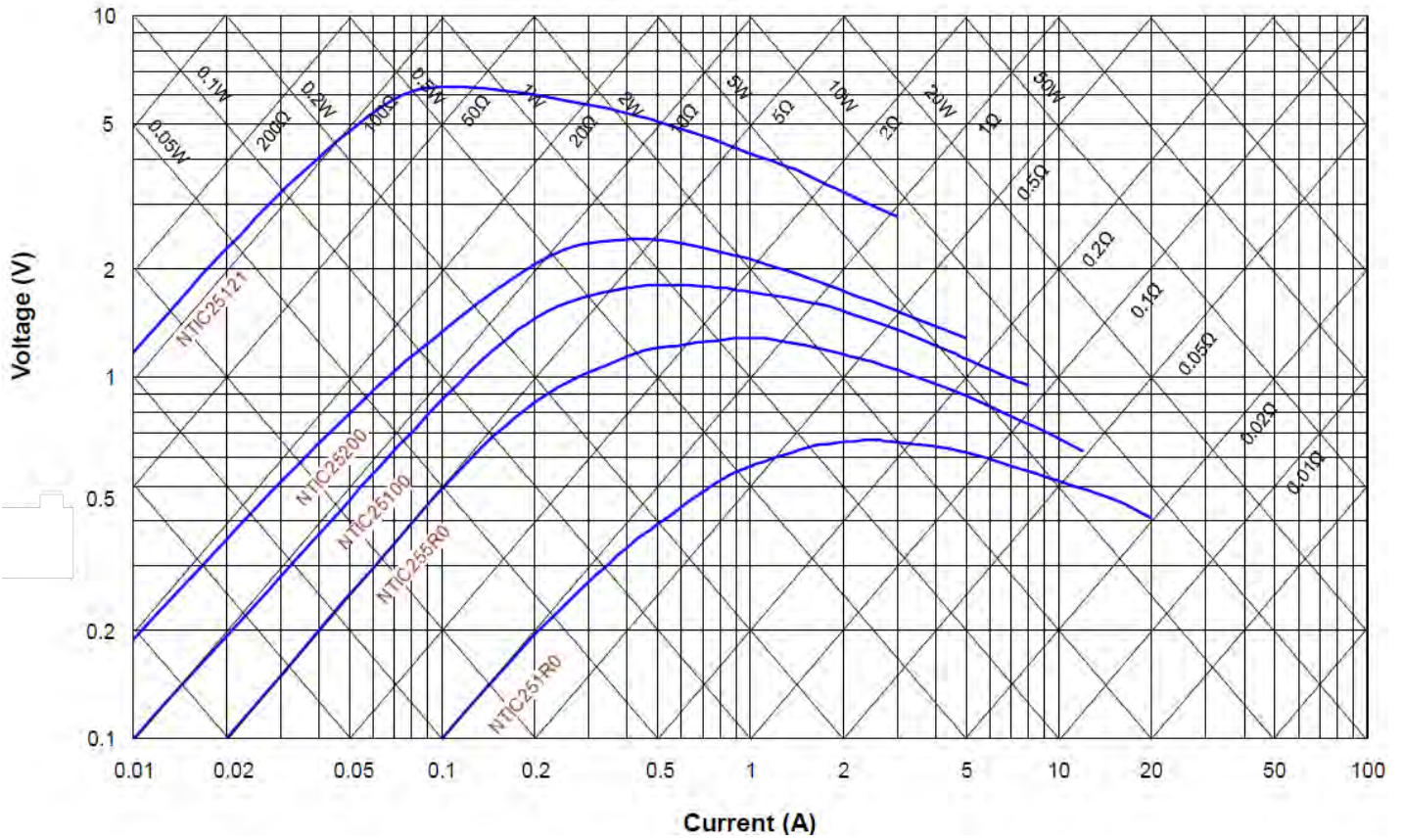
NTC Power Thermistor for Limiting Inrush Current



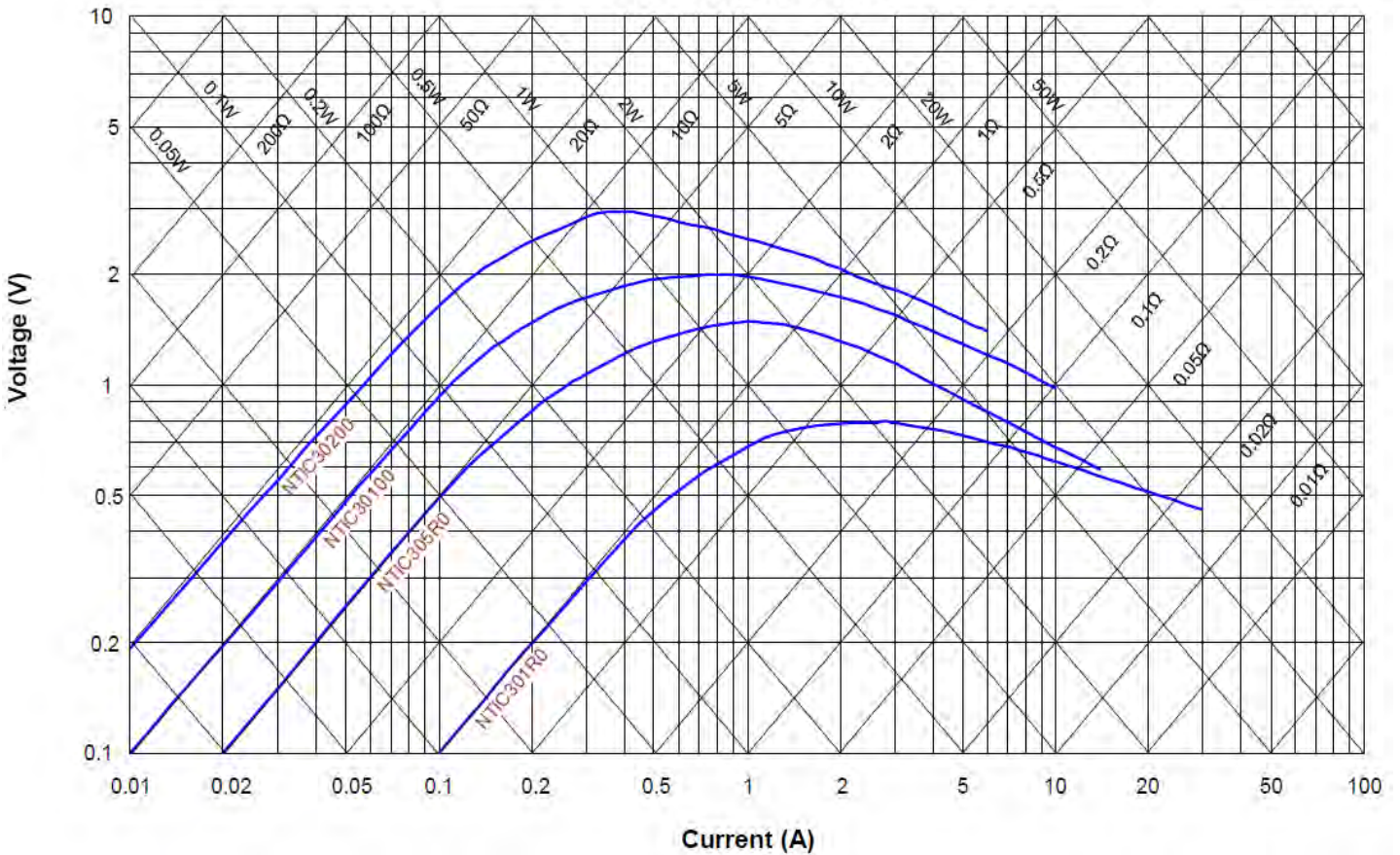
NTIC Series

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NTIC251R0~NTIC25121



NTIC301R0~NTIC30200



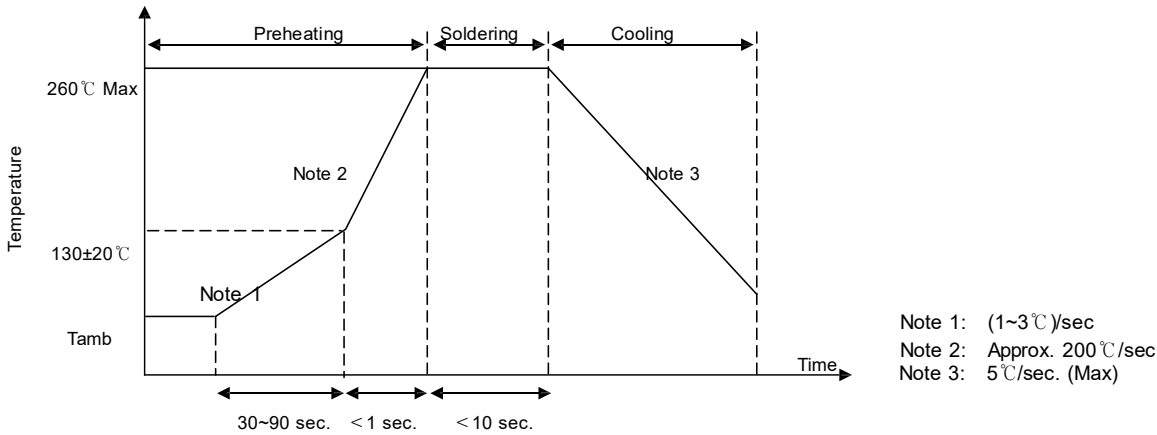
NTC Power Thermistor for Limiting Inrush Current



NTIC Series

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SOLDERING RECOMMENDATION WAVE FLOW SOLDERING PROFILE



RECOMMENDED REWORKING CONDITIONS WITH SOLDERING IRON

- Temperature of soldering Iron-tip : 360°C,max.
- Soldering time : 3.0 seconds, max.
- Distance from thermistor : 2.0 mm, min.

RELIABILITY

Item	Specifications	Test condition	Standard		
Tensile Strength of Terminals	no visible damage	Gradually apply the specified force and keep the unit fixed for 10±1.0seconds.	IEC60068-2-21		
		Terminal diameter (mm)		Force (kg)	
		0.5<d≤0.8		1.0	
		0.8<d≤1.25		2.0	
Solderability	At least 95% of terminal electrode is covered by new solder	Apply 245±3°C, 3±0.3seconds	IEC60068-2-20		
Resistance To Soldering Heat	ΔR25/R25 ≤10%, no visible damage	Apply 260±3°C, 10±1.0seconds	IEC60068-2-20		
High Temperature Storage	ΔR25/R25 ≤20% no visible damage	Tu±5°C, 1000±24 hours	IEC60068-2-2		
Damp Heat, Steady State	ΔR25/R25 ≤20% no visible damage	40±2°C, 90~95% R.H., 1000±24 hours	IEC60068-2-78		
Rapid Change of Temperature	ΔR25/R25 ≤20% no visible damage	The thermal shock conditions shown below shall be repeated 5 cycles -	IEC60068-2-14		
		Step		Temperature	Duration
		1		T _L ±5.0°C	30±3.0minutes
		2		room temperature	5.0±3.0minutes
		3		T _U ±5.0°C	30±3.0minutes
4	room temperature	5.0±3.0minutes			
Maximum Current	ΔR25/R25 ≤20% no visible damage	25±5°C, I _{max} , 1000±24 hours	IEC60539-1		
Endurance	ΔR25/R25 ≤20% no visible damage	25±5°C, I _{max} , C _{th} , ON/OFF- 1min/5min x 1000cycles, C _{th} = capacitance at 240VAC	Specification Standard		
Insulation Test	no visible damage ≥500 MΩ	1000VDC, 1min	MIL-STD-202F-Method 302		

PACKAGING TAPING SPECIFICATION

Straight lead type

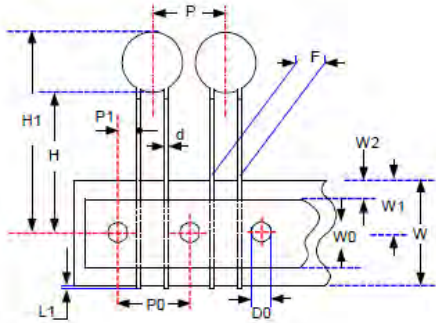


Figure A

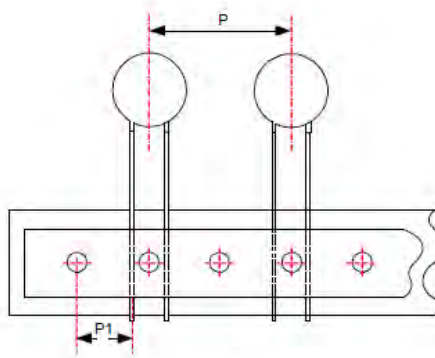


Figure B

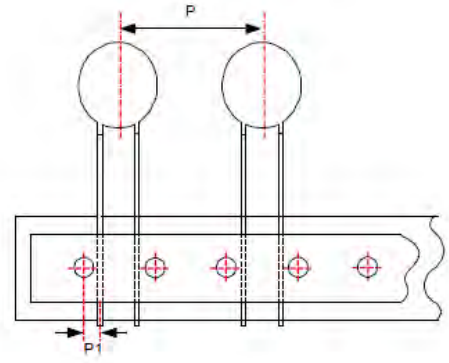
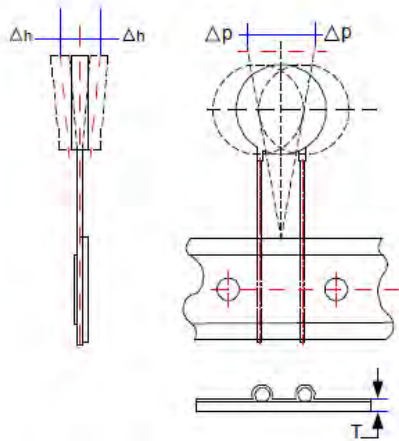


Figure C



(Unit: mm)

Taping Dimension	Disc Size	P0 (±0.3)	F (±1)	P (±1)	P1 (±0.7)	H (±0.5)	H1 (Max.)	d (±0.02)	W0 (±1)	W1 (+0.75/-0.5)	W2 (Max.)	W (+1/-0.5)	ΔP (Max.)	Δh (Max.)	L1 (Max.)	D0 (±0.2)	T (±0.2)	Figure
P0:12.7	05	12.7	4.0	12.7	4.35	18	28	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	08	12.7	5.0	12.7	3.85	18	30	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	10	12.7	5.0	12.7	3.85	18	32	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	13	12.7	7.5	25.4	8.95	18	35	0.8	12	9	3	18	1	2	0.5	4	0.6	B
	15	12.7	7.5	25.4	8.95	18	37	1.0	12	9	3	18	1	2	0.5	4	0.6	B
	20	12.7	7.5	25.4	8.95	18	42	1.0	12	9	3	18	1	2	0.5	4	0.6	B
P0:15.0	05	15.0	4.0	15.0	5.50	18	28	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	08	15.0	5.0	15.0	5.00	18	30	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	10	15.0	5.0	15.0	5.00	18	32	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	13	15.0	7.5	30.0	3.75	18	35	0.8	12	9	3	18	1	2	0.5	4	0.6	C
	15	15.0	7.5	30.0	3.75	18	37	1.0	12	9	3	18	1	2	0.5	4	0.6	C
	20	15.0	7.5	30.0	3.75	18	42	1.0	12	9	3	18	1	2	0.5	4	0.6	C

NTC Power Thermistor for Limiting Inrush Current



NTIC Series

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Y kink type

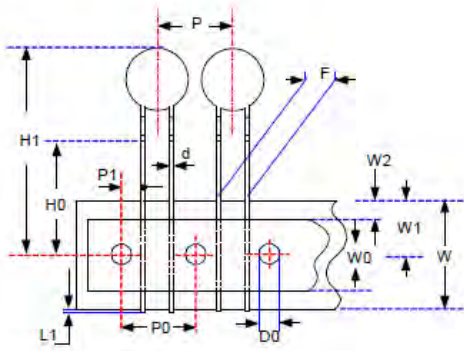


Figure A

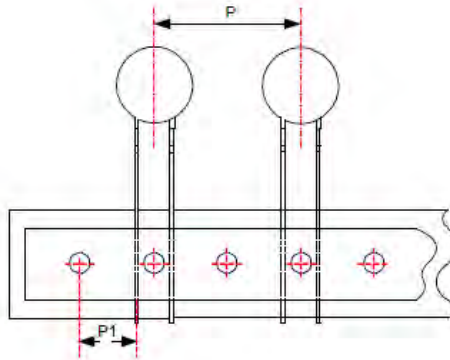


Figure B

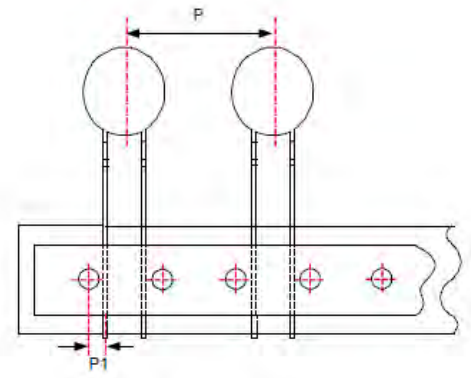
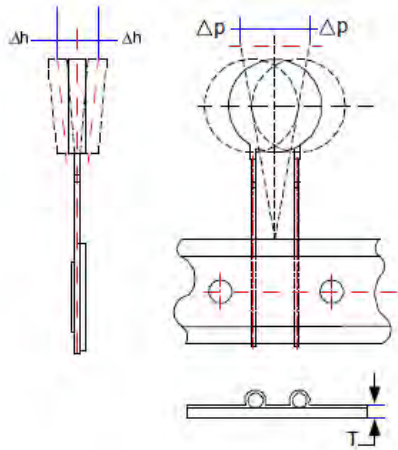


Figure C



(Unit: mm)

Taping Dimension	Disc Size	P0 (±0.3)	F (±1)	P (±1)	P1 (±0.7)	H0 (±0.5)	H1 (Max.)	d (±0.02)	W0 (±1)	W1 (+0.75/-0.5)	W2 (Max.)	W (+1/-0.5)	ΔP (Max.)	Δh (Max.)	L1 (Max.)	D0 (±0.2)	T (±0.2)	Figure
P0:12.7	05	12.7	4.0	12.7	4.35	16	28	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	08	12.7	5.0	12.7	3.85	16	30	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	10	12.7	5.0	12.7	3.85	16	32	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	13	12.7	7.5	25.4	8.95	16	35	0.8	12	9	3	18	1	2	0.5	4	0.6	B
	15	12.7	7.5	25.4	8.95	16	37	1.0	12	9	3	18	1	2	0.5	4	0.6	B
	20	12.7	7.5	25.4	8.95	16	42	1.0	12	9	3	18	1	2	0.5	4	0.6	B
P0:15.0	05	15.0	4.0	15.0	5.50	16	28	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	08	15.0	5.0	15.0	5.00	16	30	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	10	15.0	5.0	15.0	5.00	16	32	0.8	12	9	3	18	1	2	0.5	4	0.6	A
	13	15.0	7.5	30.0	3.75	16	35	0.8	12	9	3	18	1	2	0.5	4	0.6	C
	15	15.0	7.5	30.0	3.75	16	37	1.0	12	9	3	18	1	2	0.5	4	0.6	C
	20	15.0	7.5	30.0	3.75	16	42	1.0	12	9	3	18	1	2	0.5	4	0.6	C

NTC Power Thermistor for Limiting Inrush Current



NTIC Series

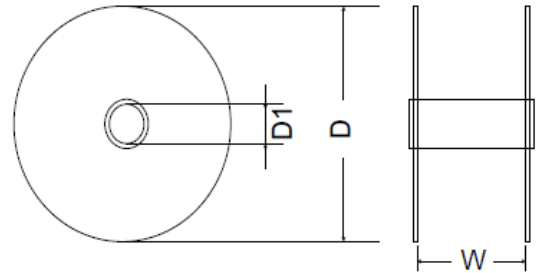
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QUANTITY BULK PACKAGE

Series	Standard Lead Type Quantity (pcs/bag)	Cut Lead Type Quantity (pcs/bag)	L kink Type Quantity (pcs/bag)
NTIC05	250	500	---
NTIC08	250	250	200
NTIC10	200	250	200
NTIC13	100	200	100
NTIC15	100	100	100
NTIC20	500 (pcs/box)	50	50
NTIC25	168 (pcs/box)	168 (pcs/box)	---
NTIC30	168 (pcs/box)	168 (pcs/box)	---

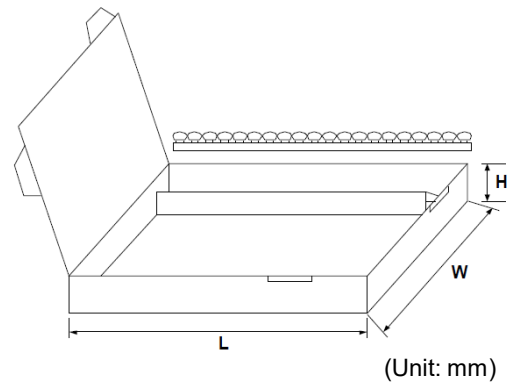
REEL PACKAGE

Series	D (mm)	D1 (mm)	W (mm)	Quantity (pcs/reel)
NTIC05	340±10	31±1	55±1	2,500
NTIC08				1,500
NTIC10				1,500
NTIC13				750
NTIC15				750
NTIC20				500



AMMO PACKAGE

Series	Quantity (pcs/box)
NTIC05	1,000
NTIC08	1,000
NTIC10	1,000
NTIC13	500
NTIC15	500
NTIC20	500



Body Size	L	W	H
Φ5~Φ20	348	275	60

WAREHOUSE STORAGE

1. Storage Temperature: -10°C~+40°C
2. Relative Humidity: ≤75%RH
3. Keep away from corrosive atmosphere and sunlight.
4. 1 year