



NIC COMPONENTS CORP.

70 Maxess Road • Melville, New York 11747
(631) 396-7500 • Fax (631) 396-7575

2/19/01

NTP Series – Extended Range (ER)



FEATURES

- Ultra Low ESR and High Ripple Current Ratings
- -55° ~ +125°C Extended Operating Temperature Range
- Suitable for Reflow Soldering
- Available in D (7343) Case Size

EXTENDED RANGE POLYMER CATHODE LOW ESR TANTALUM ELECTROLYTIC CAPACITORS

PERFORMANCE CHARACTERISTICS

ITEM		PERFORMANCE						TEST CONDITION		
Operating Temp.		-55° ~ +125°C								
Rated Voltage			4	6.3	10					
Category Voltage			25	4	6.3			Temperature 125°C		
Surge Voltage			52	8	13			Temperature 85°C		
Cap.	Range: Tolerance:	100 ~ 330 μF ±20%						Frequency: 120 Hz		
DF		10 % MAX.						Frequency: 120 Hz		
CHARACTERISTICS AT HIGH AND LOW TEMP.	Temp.:	-55°C			+85° & +125°C			CONDITIONS		
	ΔC/C :	±20%			± 50%			Step	Temp.[°C]	Time
	DF:	Lower than Initial spec.			<150% of Initial spec.			1	20±2	Every 5 Minutes
	LC:	—			1.0 CV(μF x volts)			2	-55 ⁺⁰ ₋₃	
								3	20±2	
								4	85 ⁺³ ₋₀	
							5	125 ⁺³ ₋₀		
							6	20±2		
								DC Bias: 1.5±0.2V		
Thermal Shock		ΔC/C: ±20% DF: Lower than initial spec. LC: Lower than initial spec.						-55°C ~ 20°C ~ 125°C 5 cycles. (Hold 30 min.)		
Endurance		ΔC/C: ±20% DF: Lower than 300 % of initial spec. LC: Lower than 200 % of initial spec.						@125°C, apply category voltage, 500 hours.		

RATINGS

NIC Part Number	Case Size	Rated Volt.	Cap. [μ F] @120Hz	DF [%] @120Hz	ESR [m Ω] @100KHz	Ripple Current Rating (mA) @100KHz, +25°C / +125°C	LC [μ A] @Rated Voltage
NTP337M6.3TRD(ER)	D 7343	6.3	330	10	40	1825 / 489	207.9
NTP337M6.3TRD(ER40)		6.3	330	10	40	1825 / 489	207.9
NTP337M6.3TRD(ER25)		6.3	330	10	25	1825 / 489	207.9
NTP107M10TRD(ER)		10	100	10	80	1655 / 443	100.0
NTP107M10TRD(ER55)		10	100	10	55	1655 / 443	100.0

ISO 9002 REGISTERED



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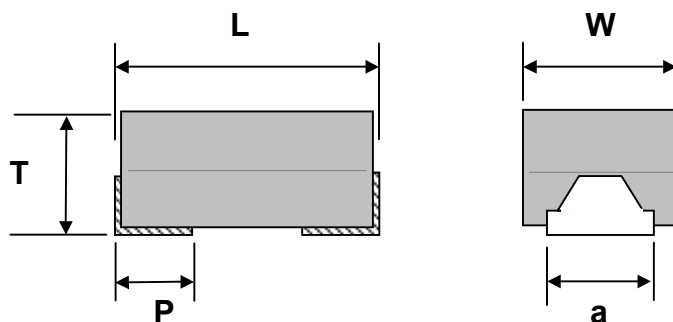
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DIMENSIONS (mm):

Length (L):	7.3 ± 0.2
Width (W):	4.3 ± 0.2
Height (T):	3.1 MAX.
Termination Width (a):	2.4 ± 0.1
Termination Wrap (P)	1.3 ± 0.1



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