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October 28th 2016

SUB: EOL – End of Life Notification

Products impacted by this notice:

NPC Series – SMT Solid Polymer Aluminum Electrolytic Capacitors

Product specification: www.niccomp.com/catalog/npc.pdf

NIC Part Numbers affected: All **EOL Part Numbers** as listed in Table 1 below

Effective: October 28th 2016

Last time order supporting business from established customers: April 28th 2017

Last time delivery: October 28th 2017

Table 1

EOL Part Number	Voltage Rating	Capacitance Value	Alternate – Suggested Replacement Part Numbers
NPC101M2D5ZATRF	2VDC	100uF	NSP101M4D6ZATRF NSP181M2D6ZATRF ^Δ
NPC101M2D1UATRF	2VDC	100uF	NSP101M4D6ZATRF NSP221M2D5YATRF ^Δ
NPC101M2D1ZATRF	2VDC	100uF	NSP101M6.3D1ATRF
NPC101M2D6XATRF	2VDC	100uF	NSP101M4D6ZATRF NSP181M2D6ZATRF ^Δ
NPC101M2D6ZATRF	2VDC	100uF	NSP101M4D6ZATRF NSP181M2D6ZATRF ^Δ
NPC121M2D6ZATRF	2VDC	120uF	NSP121M4DZATRF NSP181M2D6ZATRF ^Δ
NPC151M2D5ZATRF	2VDC	150uF	NSP151M2.5D6ZATRF NSP221M2D5YATRF ^Δ
NPC151M2D6ZATRF	2VDC	150uF	NSP151M2.5D6ZATRF NSP181M2D6ZATRF ^Δ
NPC151M2D1UATRF	2VDC	150uF	NSP151M2.5D6ZATRF NSP181M2.5DYATRF ^Δ
NPC181M2D5ZATRF	2VDC	180uF	NSP181M2D6ZATRF NSP221M2D5YATRF ^Δ
NPC181M2D6ZATRF	2VDC	180uF	NSP181M2D6ZATRF
NPC221M2D5ZATRF	2VDC	220uF	NSP221M2D6ZATRF NSP221M2D5YATRF
NPC221M2D6YATRF	2VDC	220uF	NSP221M2D5YATRF NSP221M2D6ZATRF
NPC221M2D6ZATRF	2VDC	220uF	NSP221M2D6ZATRF
NPC271M2D6YATRF	2VDC	270uF	NSP271M2D6YATRF
NPC271M2D6ZATRF	2VDC	270uF	NSP271M2D6ZATRF
NPC271M2D8YATRF	2VDC	270uF	NSP271M2D6YATRF
NPC331M2D6UATRF	2VDC	330uF	NSP331M2D6UATRF
NPC331M2D6YATRF	2VDC	330uF	NSP331M2D6YATRF
NPC331M2D6ZATRF	2VDC	330uF	NSP331M2D6ZATRF
NPC331M2D8YATRF	2VDC	330uF	NSP331M2D6YATRF
NPC391M2D8YATRF	2VDC	390uF	NSP391M2D6YATRF
NPC471M2D8YATRF	2VDC	470uF	NSP471M2D6YATRF
NPC471M2D6UATRF	2VDC	470uF	NSP471M2D6UATRF

Table 1 (continued)

EOL Part Number	Voltage Rating	Capacitance Value	Alternate – Suggested Replacement Part Numbers
NPC820M2.5D1ZATRF	2.5VDC	82uF	NSP820M4D6ZATRF
NPC820M2.5D6XATRF	2.5VDC	82uF	NSP820M4D6ZATRF NSP151M2.5D6ZATRF ^Δ
NPC820M2.5D6ZATRF	2.5VDC	82uF	NSP820M4D6ZATRF NSP151M2.5D6ZATRF ^Δ
NPC101M2.5D5ZATRF	2.5VDC	100uF	NSP101M4D6ZATRF NSP181M2.5DYATRF ^Δ
NPC101M2.5D1UATRF	2.5VDC	100uF	NSP101M4D6ZATRF NSP181M2.5DYATRF ^Δ
NPC101M2.5D6ZATRF	2.5VDC	100uF	NSP101M4D6ZATRF NSP151M2.5D6ZATRF ^Δ
NPC121M2.5D6ZATRF	2.5VDC	120uF	NSP121M4DZATRF NSP151M2.5D6ZATRF ^Δ
NPC121M2.5D1UATRF	2.5VDC	120uF	NSP121M4DZATRF NSP181M2.5DYATRF ^Δ
NPC151M2.5D5ZATRF	2.5VDC	150uF	NSP151M2.5D6ZATRF NSP181M2.5DYATRF ^Δ
NPC151M2.5D6ZATRF	2.5VDC	150uF	NSP151M2.5D6ZATRF
NPC181M2.5D5ZATRF	2.5VDC	180uF	NSP181M2.5D6ZATRF NSP181M2.5DYATRF
NPC181M2.5D6ZATRF	2.5VDC	180uF	NSP181M2.5D6ZATRF
NPC181M2.5D7XATRF	2.5VDC	180uF	NSP181M2.5D6ZATRF
NPC221M2.5D6YATRF	2.5VDC	220uF	NSP221M2.5D6YATRF
NPC221M2.5D6ZATRF	2.5VDC	220uF	NSP221M2.5D6ZATRF
NPC221M2.5D8YATRF	2.5VDC	220uF	NSP221M2.5D6YATRF
NPC271M2.5D6YATRF	2.5VDC	270uF	NSP271M2.5D1YATRF
NPC271M2.5D6ZATRF	2.5VDC	270uF	NSP271M2.5D6YATRF
NPC271M2.5D8YATRF	2.5VDC	270uF	NSP271M2.5D6YATRF
NPC331M2.5D8YATRF	2.5VDC	330uF	NSP331M2.5D6YATRF
NPC331M2.5D6YATRF	2.5VDC	330uF	NSP331M2.5D6YATRF
NPC391M2.5D6YATRF	2.5VDC	390uF	NSP391M2.5D6YATRF
NPC391M2.5D8ZATRF	2.5VDC	390uF	NSP391M2.5D6ZATRF
NPC471M2.5D8YATRF	2.5VDC	470uF	NSP471M2.5D6YATRF
NPC471M2.5D6UATRF	2.5VDC	470uF	NSP471M2.5D6UATRF
NPC680M4D5XATRF	4VDC	68uF	NSP680M6.3DZATRF NSP680M6.3D5ATRF
NPC680M4D6XATRF	4VDC	68uF	NSP680M6.3DZATRF NSP820M4D6ZATRF ^Δ
NPC680M4D1ZATRF	4VDC	68uF	NSP680M6.3DZATRF
NPC680M4D6ZATRF	4VDC	68uF	NSP680M6.3DZATRF NSP820M4D6ZATRF ^Δ
NPC820M4D6XATRF	4VDC	82uF	NSP820M4D6ZATRF
NPC101M4D6XATRF	4VDC	100uF	NSP101M4D6ZATRF
NPC121M4D6XATRF	4VDC	120uF	NSP121M4DZATRF
NPC151M4D6XATRF	4VDC	150uF	NSP151M4D6ZATRF
NPC151M4D7XATRF	4VDC	150uF	NSP151M4D6ZATRF
NPC181M4D8ZATRF	4VDC	180uF	NSP181M4D6ZATRF

Table 1 (continued)

EOL Part Number	Voltage Rating	Capacitance Value	Alternate – Suggested Replacement Part Numbers
NPC181M4D6ZATRF	4VDC	180uF	NSP181M4D6ZATRF
NPC221M4D6ZATRF	4VDC	220uF	NSP221M4D6ZATRF
NPC221M4D8ZATRF	4VDC	220uF	NSP221M4D6ZATRF
NPC271M4D8ZATRF	4VDC	270uF	NSP271M4D6ZATRF
NPC331M4D8ZATRF	4VDC	330uF	NSP331M4D6ATRF
NPC471M4D8ZATRF	4VDC	470uF	- - -
NPC330M6.3D6XATRF	6.3VDC	33uF	NSPX330M16D6ATRF NSP680M6.3DZATRF ^Δ
NPC470M6.3D5XATRF	6.3VDC	47uF	NSPX470M10D6ATRF NSP680M6.3DZATRF ^Δ
NPC470M6.3D6XATRF	6.3VDC	47uF	NSPX470M10D6ATRF NSP680M6.3DZATRF ^Δ
NPC470M6.3D1XATRF	6.3VDC	47uF	NSPX470M10D6ATRF NSP680M6.3DZATRF ^Δ
NPC470M6.3D6ZATRF	6.3VDC	47uF	NSPX470M10D6ATRF NSP680M6.3DZATRF ^Δ
NPC560M6.3D6XATRF	6.3VDC	56uF	NSP680M6.3DZATRF ^Δ
NPC680M6.3D6XATRF	6.3VDC	68uF	NSP680M6.3DZATRF
NPC820M6.3D6XATRF	6.3VDC	82uF	NSP121M6.3D6ZATRF ^Δ
NPC101M6.3D7XATRF	6.3VDC	100uF	NSP101M6.3D6ATRF
NPC101M6.3D6XATRF	6.3VDC	100uF	NSP101M6.3D6ATRF
NPC121M6.3D6ZATRF	6.3VDC	120uF	NSP121M6.3D6ZATRF
NPC121M6.3D8ZATRF	6.3VDC	120uF	NSP121M6.3D6ZATRF
NPC151M6.3D8ZATRF	6.3VDC	150uF	NSP151M6.3D6ZATRF
NPC151M6.3D6ZATRF	6.3VDC	150uF	NSP151M6.3D6ZATRF
NPC181M6.3D8ZATRF	6.3VDC	180uF	NSP181M6.3D6ZATRF
NPC221M6.3D8ZATRF	6.3VDC	220uF	NSP221M6.3D6ATRF
NPC150M8D6XATRF	8VDC	15uF	NSPX150M16D6ATRF
NPC220M8D6ATRF	8VDC	22uF	NSPX220M16D6ATRF
NPC330M8D6ATRF	8VDC	33uF	NSPX330M16D6ATRF
NPC330M8D7XATRF	8VDC	33uF	NSPX330M16D6ATRF
NPC470M8D6ATRF	8VDC	47uF	NSPX470M10D6ATRF
NPC680M8D7ATRF	8VDC	68uF	NSPX680M10D6ATRF
NPC101M8D7ATRF	8VDC	100uF	NSPX101M10D6ATRF
NPC101M8D7XATRSF	8VDC	100uF	NSPX101M10D6ATRF
NPC220M10D6ATRF	10VDC	22uF	NSPX220M16D6ATRF NSPX470M10D6ATRF ^Δ
NPC470M10D6ATRF	10VDC	47uF	NSPX470M10D6ATRF

Alternate – Suggested **Replacement Part Numbers** (as shown in Table 1 above) are closest same footprint, same or higher VDC rated alternates. ^Δ – Identifies replacement part numbers to consider in higher capacitance values

Please review NIC **NSP** & **NSPX** series product specification (i.e. *ESR, RCR, and Height*) to assure replacement part numbers meet your circuit requirements

- **NSP** series specification: www.niccomp.com/catalog/nsp.pdf
- **NSPX** series specification: www.niccomp.com/catalog/nspx.pdf

→ For assistance in comparing part numbers, please contact NIC technical support at tpmg@niccomp.com



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

Please use **NIC QuickBUILDER** tool to select – review and compare potential replacement part numbers
www.niccomp.com/quickbuilder/gb_capacitor.php

Prepared by: Technical Product Marketing Group / tpmg@niccomp.com

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Surface Mount Solid Polymer Aluminum Electrolytic Capacitors

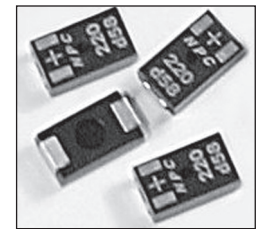
NPC Series

FEATURES

- LOW IMPEDANCE & ESR AT HIGH FREQUENCY
- HIGH RIPPLE CURRENT
- REPLACES MULTIPLE TANTALUM CHIPS IN POWER SUPPLIES
- FITS EIA (7343) "D" LAND PATTERNS
- Pb-FREE (GOLD TERMINATION PLATING)
- COMPATIBLE WITH +260°C* REFLOW SOLDERING

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Rated Working Range	2.0 ~ 10VDC						
Rated Capacitance Range	22 ~ 470μF						
Operating Temperature Range	-55 ~ +105°C						
Capacitance Tolerance	± 20% (M)						
Max. Leakage Current (μA) After 5 Minutes (+20°C)	≤0.04CV						
Surge Voltage (1000 cycles, 30 sec. on, 5 min. 30 sec. off, 1KΩ)	Working Voltage (Vdc)	2.0	2.5	4.0	6.3	8.0	10
	Surge Voltage (Vdc)	2.6	3.2	5.2	8.2 7.8**	10.4	11.5
Max. Tan δ, 120Hz, +20°C	D1, D6	≤0.05					
	D5, D7, D8	≤0.1					
High Temperature Load Life 2,000 Hours @ 105°C at Rated Working Voltage after 2x recommended reflow profile	Capacitance Change	Within ±20% of initial measured value					
		//*Within ±30% of initial measured value					
	Tan δ	D7, D8		Less than 150% of specified max. value			
		D1, D5, D6		Less than 200% of specified max. value			
	Leakage Current	Less than specified max. value					
Moisture Resistance 500 Hours @ +60°C at 90 ~ 95% RH and No Voltage Applied after 2x recommended reflow profile (JEDEC MSL-3)	Capacitance Change	Within -20%/+40% of initial measured value					
		D5, **/**/*Within -20%/+60% of initial measured value					
	Tan δ	D7, D8		Less than 150% of specified max. value			
		D1, D5, D6		Less than 200% of specified max. value			
	Leakage Current	Less than 300% of specified max. value					

STANDARD PRODUCTS AND SPECIFICATIONS

//*Applies to values with asterisk in column "NIC Part Number"

NIC Part Number (+260°C Reflow)	WV	Cap.	Max. LC	Tan δ	Max. Ripple Current (mArms)@ 100KHz			Max. ESR +20°C @ 100KHz (Ω)	Height H ± 0.1
	(Vdc)	(µF)	(µA)		≤45°C	45°C < T ≤85°C	85°C < T ≤105°C		
NPC101M2D5ZATRF	2	100	8.0	0.10	6,300	4,400	2,700	0.009	1.1
NPC101M2D1UATRF		100	8.0	0.05	8,100	5,600	3,000	0.005	1.4
NPC101M2D1ZATRF		100	8.0	0.05	6,300	4,400	3,000	0.009	1.4
NPC101M2D6XATRF		100	8.0	0.05	5,400	3,700	3,000	0.013	1.9
NPC101M2D6ZATRF		100	8.0	0.05	6,300	4,400	3,000	0.009	1.9
NPC121M2D6ZATRF		120	9.6	0.05	6,300	4,400	3,000	0.009	1.9
NPC151M2D5ZATRF		150	12.0	0.10	6,300	4,400	2,700	0.009	1.1
NPC151M2D1UATRF		150	12.0	0.05	8,100	5,600	3,000	0.005	1.4
NPC151M2D6ZATRF		150	12.0	0.05	6,300	4,400	3,000	0.009	1.9
NPC181M2D5ZATRF		180	14.4	0.10	6,300	4,400	2,700	0.009	1.1
NPC181M2D6ZATRF		180	14.4	0.05	6,300	4,400	3,000	0.009	1.9
NPC221M2D5ZATRF		220	17.6	0.10	6,300	4,400	2,700	0.009	1.1
NPC221M2D6YATRF		220	17.6	0.05	7,000	4,900	3,000	0.007	1.9
NPC221M2D6ZATRF		220	17.6	0.05	6,300	4,400	3,000	0.009	1.9
NPC221M2D7XATRF		220	17.6	0.10	6,000	4,200	3,500	0.010	2.7
NPC271M2D6ZATRF*		270	21.6	0.05	6,300	4,400	3,000	0.009	1.9****
NPC271M2D6YATRF*		270	21.6	0.05	7,500	5,200	3,500	0.006	1.9****
NPC271M2D8YATRF		270	21.6	0.10	7,000	4,900	3,500	0.007	2.9
NPC331M2D6ZATRF*		330	26.4	0.05	6,300	4,400	3,000	0.009	1.9****
NPC331M2D6YATRF*		330	26.4	0.05	7,500	5,200	3,500	0.006	1.9****
NPC331M2D6UATRF*		330	26.5	0.05	8,500	5,900	3,500	0.0045	1.9****
NPC331M2D8YATRF		330	26.4	0.10	7,000	4,900	3,500	0.007	2.9
NPC391M2D8YATRF		390	31.2	0.10	7,000	4,900	3,500	0.007	2.9
NPC471M2D6UATRF***	2.5	470	37.6	0.05	8,500	5,900	3,500	0.0045	1.9****
NPC471M2D8YATRF		470	37.6	0.10	7,000	4,900	3,500	0.007	2.9
NPC820M2.5D1ZATRF		82	8.2	0.05	6,300	4,400	3,000	0.009	1.4
NPC820M2.5D6XATRF		82	8.2	0.05	5,400	3,700	3,000	0.013	1.9
NPC820M2.5D6ZATRF		82	8.2	0.05	6,300	4,400	3,000	0.009	1.9
NPC101M2.5D5ZATRF		100	10.0	0.10	6,300	4,400	2,700	0.009	1.1
NPC101M2.5D1UATRF		100	10.0	0.05	8,100	5,600	3,000	0.005	1.4

//*See note regarding capacitance change in characteristics table (Endurance & Moisture Resistance).

****height dimension tolerance ±0.2mm



NIC COMPONENTS CORP.

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SPECIFICATIONS ARE SUBJECT TO CHANGE

Surface Mount Solid Polymer Aluminum Electrolytic Capacitors

NPC Series

STANDARD PRODUCTS AND SPECIFICATIONS

NIC Part Number (+260°C Reflow)	WV	Cap.	Max. LC	Tan δ	Max. Ripple Current (mArms)@ 100KHz			Max. ESR +20°C @ 100KHz (Ω)	Height H ± 0.1
	(Vdc)	(μF)	(μA)		≤45°C	45°C< T ≤85°C	85°C< T ≤105°C		
NPC101M2.5D6ZATRF	2.5	100	10.0	0.05	6,300	4,400	3,000	0.009	1.9
NPC121M2.5D1UATRF		120	12.0	0.05	8,100	5,600	3,000	0.005	1.4
NPC121M2.5D6ZATRF		120	12.0	0.05	6,300	4,400	3,000	0.009	1.9
NPC151M2.5D5ZATRF		150	15.0	0.10	6,300	4,400	2,700	0.009	1.1
NPC151M2.5D6ZATRF		150	15.0	0.05	6,300	4,400	3,000	0.009	1.9
NPC181M2.5D5ZATRF		180	18.0	0.10	6,300	4,400	2,700	0.009	1.1
NPC181M2.5D6ZATRF		180	18.0	0.05	6,300	4,400	3,000	0.009	1.9
NPC181M2.5D7XATRF		180	18.0	0.10	6,000	4,200	3,500	0.010	2.7
NPC221M2.5D6YATRF*		220	22.0	0.05	7,500	5,200	3,500	0.006	1.9****
NPC221M2.5D6ZATRF*		220	22.0	0.05	6,300	4,400	3,000	0.009	1.9****
NPC221M2.5D8YATRF		220	22.0	0.10	7,000	4,900	3,500	0.007	2.9
NPC271M2.5D6ZATRF*		270	27.0	0.05	6,300	4,400	3,000	0.009	1.9****
NPC271M2.5D6YATRF*		270	27.0	0.05	7,500	5,200	3,500	0.006	1.9****
NPC271M2.5D8YATRF		270	27.0	0.10	7,000	4,900	3,500	0.007	2.9
NPC331M2.5D6YATRF*		330	33.0	0.05	7,500	5,200	3,500	0.006	1.9****
NPC331M2.5D8YATRF		330	33.0	0.10	7,000	4,900	3,500	0.007	2.9
NPC391M2.5D6YATRF*		390	39.0	0.05	7,500	5,200	3,500	0.006	1.9****
NPC391M2.5D8ZATRF		390	39.0	0.10	6,300	4,400	3,500	0.009	2.9
NPC471M2.5D8YATRF		470	47.0	0.10	7,000	4,900	3,500	0.007	2.9
NPC471M2.5D6UATRF***		470	47.0	0.10	8,500	5,900	3,500	0.0045	1.9****
NPC680M4D5XATRF	4.0	68	10.9	0.10	5,100	3,500	2,100	0.015	1.1
NPC680M4D1ZATRF		68	10.9	0.05	6,300	4,400	3,000	0.009	1.4
NPC680M4D6XATRF		68	10.9	0.05	5,400	3,700	3,000	0.013	1.9
NPC680M4D6ZATRF		68	10.9	0.05	6,300	4,400	3,000	0.009	1.9
NPC820M4D6XATRF		82	13.1	0.05	6,000	4,200	3,000	0.010	1.9
NPC101M4D6XATRF		100	16.0	0.05	6,000	4,200	3,000	0.010	1.9
NPC121M4D6XATRF		120	19.2	0.05	6,000	4,200	3,000	0.010	1.9
NPC151M4D6XATRF		150	24.0	0.05	6,000	4,200	3,000	0.010	1.9
NPC151M4D7XATRF		150	24.0	0.10	6,000	4,200	3,500	0.010	2.7
NPC181M4D6ZATRF*		180	28.8	0.05	6,300	4,400	3,000	0.009	1.9****
NPC181M4D8ZATRF		180	28.8	0.10	6,300	4,400	3,500	0.009	2.9
NPC221M4D6ZATRF*		220	35.2	0.05	6,300	4,400	3,000	0.009	1.9****
NPC221M4D8ZATRF		220	35.2	0.10	6,300	4,400	3,500	0.009	2.9
NPC271M4D8ZATRF		270	43.2	0.10	6,300	4,400	3,500	0.009	2.9
NPC331M4D8ZATRF		330	52.8	0.10	6,300	4,400	3,500	0.009	2.9
NPC471M4D8ZATRF		470	75.2	0.10	6,300	4,400	3,500	0.009	2.9
NPC330M6.3D6XATRF	6.3	33	8.3	0.05	5,100	3,500	3,000	0.015	1.9
NPC470M6.3D5XATRF		47	11.8	0.10	5,100	3,500	2,100	0.015	1.1
NPC470M6.3D1XATRF		47	11.8	0.05	6,000	4,200	3,000	0.010	1.4
NPC470M6.3D6XATRF		47	11.8	0.05	5,400	3,700	3,000	0.013	1.9
NPC470M6.3D6ZATRF		47	11.8	0.05	6,300	4,400	3,000	0.009	1.9
NPC560M6.3D6XATRF		56	14.1	0.05	6,000	4,400	3,000	0.010	1.9
NPC680M6.3D6XATRF		68	17.1	0.05	6,000	4,400	3,000	0.010	1.9
NPC820M6.3D6XATRF		82	20.7	0.05	6,000	4,200	3,000	0.010	1.9
NPC101M6.3D6XATRF		100	25.2	0.05	6,000	4,200	3,000	0.010	1.9
NPC101M6.3D7XATRF		100	25.2	0.10	6,000	4,200	3,500	0.010	2.7
NPC121M6.3D6ZATRF*		120	30.2	0.05	6,300	4,400	3,000	0.009	1.9****
NPC121M6.3D8ZATRF		120	30.2	0.10	6,300	4,400	3,500	0.009	2.9
NPC151M6.3D6ZATRF*		150	37.8	0.05	6,300	4,400	3,000	0.009	1.9****
NPC151M6.3D8ZATRF		150	37.8	0.10	6,300	4,400	3,500	0.009	2.9
NPC181M6.3D8ZATRF		180	45.4	0.10	6,300	4,400	3,500	0.009	2.9
NPC221M6.3D8ZATRF		220	55.4	0.10	6,300	4,400	3,500	0.009	2.9

*/***See note regarding capacitance change in characteristics table (Endurance & Moisture Resistance).

****height dimension tolerance ±0.2mm



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SPECIFICATIONS ARE SUBJECT TO CHANGE

Surface Mount Solid Polymer Aluminum Electrolytic Capacitors

NPC Series

STANDARD PRODUCTS AND SPECIFICATIONS

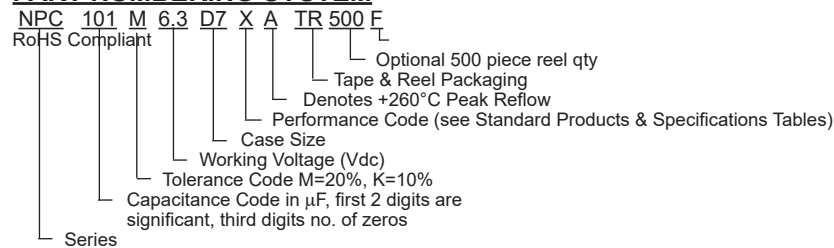
NIC Part Number (+260°C Reflow)	WV	Cap.	Max. LC	Tan δ	Max. Ripple Current (mArms)@ 100KHz			Max. ESR +20°C @ 100KHz (Ω)	Height H $\pm$ 0.1
	(Vdc)	(μ F)	(μ A)		$\leq 45^\circ\text{C}$	$45^\circ\text{C} < T \leq 85^\circ\text{C}$	$85^\circ\text{C} < T \leq 105^\circ\text{C}$		
NPC220M8D6ATRF	8	22	7.0	0.05	4,700	3,200	2,500	0.018	1.9
NPC330M8D6ATRF		33	10.6	0.05	4,700	3,200	2,500	0.018	1.9
NPC330M8D7XATRF		33	10.6	0.10	5,400	3,700	3,000	0.013	2.7
NPC470M8D6ATRF		47	15.1	0.05	4,700	3,200	2,500	0.018	1.9
NPC680M8D7ATRF		68	21.8	0.10	4,700	3,200	2,500	0.018	2.7
NPC101M8D7ATRF		100	32.0	0.10	4,700	3,200	2,500	0.018	2.7
NPC101M8D7XATRSF		100	32.0	0.10	5,600	3,900	3,300	0.012	2.7
NPC220M10D6ATRF	10	22	8.8	0.10	3,700	2,500	1,600	0.030	1.9
NPC470M10D6ATRF*		47	18.8	0.10	4,000	2,800	1,800	0.025	1.9****

NPC101M8D7XATRSF 1,000 hour load life

*/***See note regarding capacitance change in characteristics table (Endurance & Moisture Resistance).

****height dimension tolerance $\pm 0.2\text{mm}$

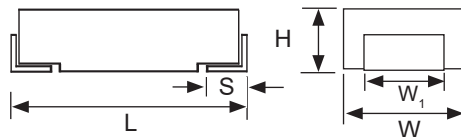
PART NUMBERING SYSTEM



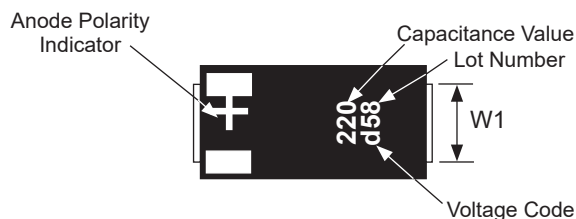
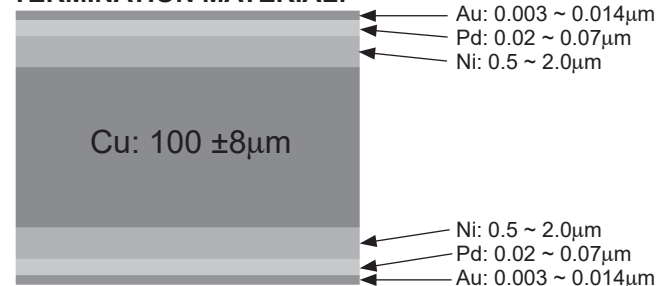
DIMENSIONS (mm)

Case Code	L ± 0.2	W ± 0.2	H ± 0.1	W1 ± 0.1	S ± 0.2
D1	7.3	4.3	1.4	2.4	1.2
D5			1.1		
D6			1.9*		
D7			2.7		
D8			2.9		

*D6 - See Standard Products & Specifications Tables for height tolerance.



TERMINATION MATERIAL:



VOLTAGE CODES

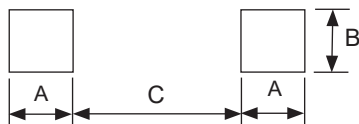
Voltage	Code
2.0VDC	d
2.5VDC	e
4.0VDC	g
6.3VDC	j
8.0VDC	k
10VDC	A

Surface Mount Solid Polymer Aluminum Electrolytic Capacitors

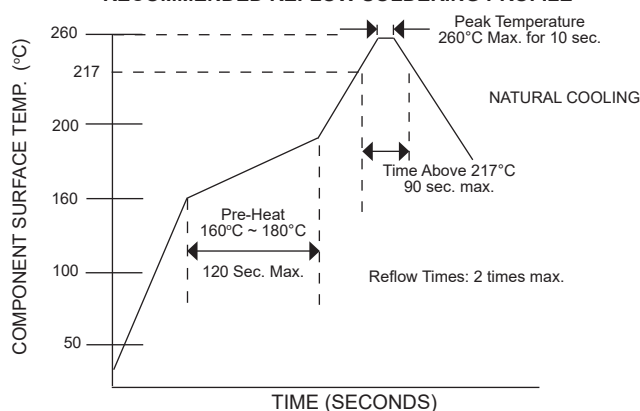
NPC Series

RECOMMENDED LAND PATTERNS (mm)

Case Code	a	b	c
D1, D5, D6, D7, D8	2.4	2.9	3.7



RECOMMENDED REFLOW SOLDERING PROFILE



APPLICATION NOTES:

1. NPC Series cannot be used in coupling, time-constant or other circuits that are greatly affected by leakage current.
2. NPC parts are polarized so be sure to verify component orientation when mounting components.
3. Do not apply over voltage exceeding the rated voltage.
4. Do not apply ripple current over the specified maximum ripple current rating.

NOTES ON REFLOW SOLDERING:

1. SAC alloy (+217°C) reflow soldering compatible
2. Soldering heat limits apply to the top surface of component
3. If you have concerns about your reflow soldering profile review them with NIC to insure compatible [tpmg@niccomp.com]

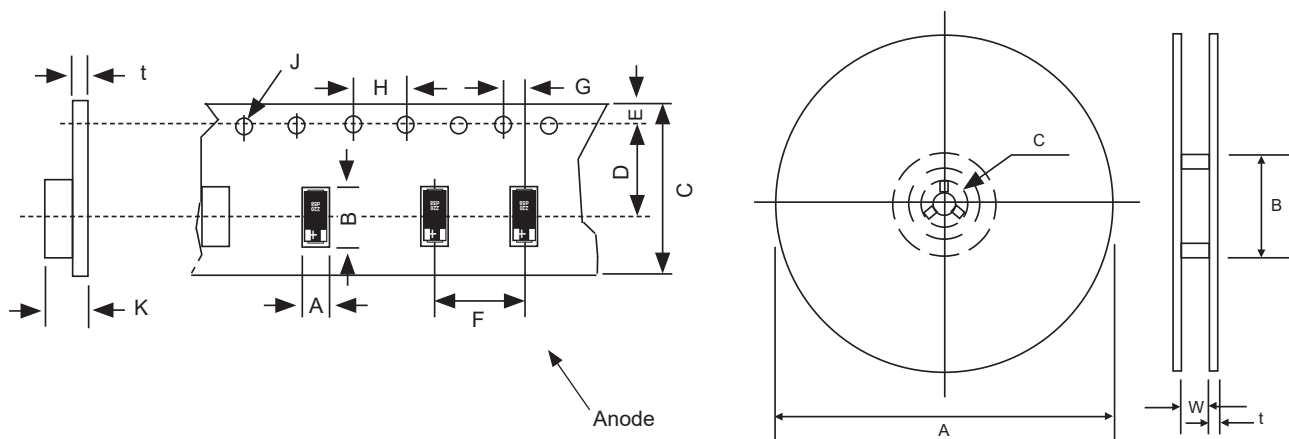
REEL TAPE DIMENSIONS (mm)

Case Code	A ±2.0	B ±1.0	C ±0.2	W ±1.0	t ±0.5	Reel Quantity
D1, D5, D6	330	80	13	13.5	2.0	3,500
D7, D8						2,000
						500*

*See part number system for details on designating reel quantity

TAPE DIMENSIONS (mm)

Case Code	A ±0.1	B ±0.2	C ±0.3	D ±0.05	E ±0.1	F ±0.1	G ±0.05	H ±0.1	J -0/+0.1	K ±0.1	t ±0.05
D1										1.6	
D5										1.5	
D6	4.50	7.70	12.0	5.5	1.75	8.0	2.0	4.0	1.5	2.3	0.3
D7										2.9	
D8										3.1	



PRECAUTIONS

Please review the notes on correct use, safety and precautions found at www.niccomp.com/precautions
If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: tpmg@niccomp.com



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