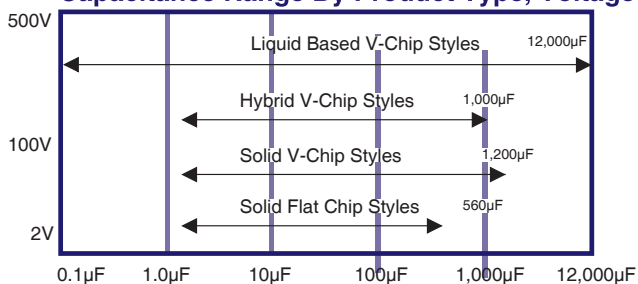


NIC Components [SMT] Surface Mount Aluminum Electrolytic Capacitors

Capacitance Range By Product Type, Voltage



Endurance Performance (hours) vs. Operating Temperatures:

Temp	NACE	NACV	NAZT	NATT	NAZV	NSPE-YJ	NSPE-J
+150°C	-	-	-	-	-	-	1,000
+135°C	-	-	-	-	-	4,000	2,828
+125°C	-	-	-	2,000	-	8,000	5,657
+115°C	-	-	-	-	-	16,000	11,314
+105°C	-	2,000	5,000	8,000	10,000	32,000	22,627
+95°C	-	4,000	10,000	16,000	20,000	64,000	452,55
+85°C	2,000	8,000	20,000	32,000	40,000	128,000	90,510
+75°C	4,000	16,000	40,000	64,000	80,000	> 15 yrs	>15 yrs
+65°C	8,000	32,000	80,000	128,000	> 15 yrs	> 15 yrs	>15 yrs

(1 Year = 8,760 Hours)

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Automotive

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General Purpose, Extended Temp, & High Voltage

Series	Type	Description	Capacitance Range	Voltage Range	Max RCR (Up to)	Load Life (Up to)
NACE	General Purpose 85°C Temperature Rating	Standard Performance	0.47µF ~ 6,800µF	4 ~ 100V	1,330mA	2,000Hrs
NACEW	General Purpose Wide Temperature 105°C Temperature Rating	Standard Performance	1.0µF ~ 12,000µF	6.3 ~ 100V	1,350mA	2,000Hrs
NAWS		Low Profile, Higher Reflow	1.0µF ~ 100µF	6.3 ~ 50V	52mA	1,000Hrs
NAWP		Reduced Size	4.7µF ~ 220µF	6.3 ~ 50V	74mA	1,000Hrs
NAZP		Long Life	100µF ~ 470µF	16 ~ 50V	850mA	7,000Hrs
NACV	General Purpose Higher Voltage, Long Life 105°C Temperature Rating	Standard Performance	2.2µF ~ 82µF	160 ~ 400V	235mA	2,000Hrs
NAWU		Long Life	1.0µF ~ 220µF	6.3 ~ 400V	235mA	5,000Hrs
NATT	125°C Temperature Rating	Standard Performance	2.2µF ~ 4,700µF	6.3 ~ 100V	900mA	2,000Hrs
NATU		Long Life	100µF ~ 330µF	25 ~ 35V	235mA	4,000Hrs
NAYT	135°C Temperature Rating	Extended Temperature	22µF ~ 1,000µF	16 ~ 50V	750mA	2,000Hrs
NAUJ	150°C Temperature Rating	Ultra High Temperature	100µF ~ 470µF	25 & 35V	700mA	1,000Hrs

LowESR Series

Series	Type	Description	Capacitance Range	Voltage Range	Max RCR (Up to)	Load Life (Up to)
NAZH	Low ESR & Z 105°C Temperature Rating	Extended CV Range	10µF ~ 2,200µF	6.3 ~ 50V	1,190mA	2,000Hrs
NAZU		Extended Life	10µF ~ 330µF	6.3 ~ 50V	230mA	3,000Hrs
NAZT	Higher Performance - Lower ESR & Z Longer Life Ratings 105°C Temperature Rating	Higher Reflow Rating	4.7µF ~ 12,000µF	6.3 ~ 100V	2,260mA	5,000Hrs
NAZJ		Ultra Low ESR & Z	10µF ~ 1,800µF	6.3 ~ 50V	1,190mA	2,000Hrs
NAZV		Longest Life Rating	10µF ~ 1,000µF	6.3 ~ 50V	850mA	10,000Hrs
NATF	125°C Temperature Rating	Standard Performance	47µF ~ 680µF	16 ~ 63V	710mA	4,000Hrs
NATK		Long Life	10µF ~ 3,900µF	16 ~ 50V	2,200mA	5,000Hrs
NATT		High Voltage	100µF ~ 3,900µF	6.3 ~ 100V	900mA	2,000Hrs
NATU		Low ESR	100µF ~ 3,900µF	25 ~ 35V	500mA	4,000Hrs
NSPE-HF	Hybrid Electrolyte V-Chip Lower ESR - Higher RCR Extended Temperatures	High Voltage, Long Life	10µF ~ 470µF	25 ~ 80V	2,800mA	10,000Hrs
NSPE-TS		125°C Temperature Rating	100µF ~ 1,000µF	6.3 ~ 10V	2,200mA	5,000Hrs
NSPE-TC			10µF ~ 470µF	25 ~ 80V	2,300mA	4,000Hrs
NSPE-TF			10µF ~ 470µF	25 ~ 80V	2,300mA	4,000Hrs
NSPE-TJ			150µF ~ 470µF	25 ~ 35V	3,800mA	4,000Hrs
NSPE-TS			100µF ~ 1,000µF	6.3 ~ 10V	2,200mA	5,000Hrs
NSPE-YP		135°C Temperature Rating	220µF ~ 1,800µF	16 ~ 35V	5,200mA	4,000Hrs
NSPE-UT		150°C Temperature Rating	22µF ~ 1,000µF	16 ~ 80V	5,900mA	4,000Hrs
NSP	Solid Polymer Electrolyte Ultra Low ESR Highest RCR	Standard Flat Chip	2.2µF ~ 560µF	2 ~ 6.3V	10,200mA	2,000Hrs
NSPT		High Temperature	120µF ~ 470µF	2 ~ 6.3V	10,500mA	1,000Hrs
NSPL		3-Terminal Low ESL	68µF ~ 560µF	2 ~ 6.3V	10,200mA	2,000Hrs

General Purpose, Wide/Extended Temp, High Voltage											
NIC Series	Elna	Illinois	Lelon	Nichicon	Panasonic	Rubycon	Sanyo	UCC	Vishay BC		
NAAC	***	***	***	UUA LUV	HC	SJV	***	MVL	***		
NACE	RV, RV2 RV3	SML	RV RV2	UUR, UWX LUG	VA VS	REV SEV	CE-C CEBS	MV	***		
NACEN	RVB	NPS	RVB	UWP	VSN	NEV	CV/NP	NVBP	***		
NACEW	RVL, RVJ RVS	SMH	RVS	UVV, UWT UUT, UUX	VG, VV HA, HB	RGV RKY	***	MVK MVJ	***		
NACNW	***	NCN	***	UUP	HB	SKV	CE-FN	MK-BP	***		
NACP	RV4	***	***	UZS	MC	SSV	CE-BD	MVS	***		
NAOS	***	***	RV3	***	***	***	CE-BBS	MVA	***		
NACV	***	***	***	LUG	EB	***	CE-FS	MVH, MHA MHB	***		
NASE	SML	***	***	UWU UWS	EEE_A	JEV	***	ENV EMVA	***		
NAWPP	***	***	***	***	EEHHA	***	***	***	***		
NAZT	AXZ	***	***	UWD	EEV-FC	***	***	***	***		
NAWU	***	***	***	***	EEVHD	SLV	***	EMMH EMVJ	***		
NA1T	UCA	***	***	***	***	***	CE-PC	***	***		
NA1T	UCA	***	***	***	***	***	***	***	***		
NA1T	RVX	***	***	UCX	***	***	***	***	146 CT1 MAL2146		
NA1U	RTQ	***	***	UBC	***	***	***	***	160 CLA MAL2160		

Low ESR - Low Impedance											
NIC Series	Elna	Illinois	Lelon	Nichicon	Panasonic	Rubycon	Sanyo	UCC			
NACK	RVZ	***	***	UUA	FK	TZV	***	EMVA			
NACX	RNH	GAZ	***	UWF	FC	RZV	CV-GX	***			
NACY	***	***	***	UWG	***	***	***	***			
NACZ NACZF	RNH RVJ	AXZ	***	UWF, UUD LUG, UJJ	FC	SGV	CV-GX	EMVA			
NAZU	***	***	***	UUA	***	***	CE-LS	***			
*NAZJ	***	***	***	***	FP	***	***	***			
NAZT	AXZ	***	***	***	EEE-FK	REV	CE-LX	***			
*NAZV	***	***	***	CW	***	***	***	MZE			

Solid & Hybrid Types											
NIC Series	Kemet	Murata	NEC	Nichicon	Panasonic	Sanyo	United Chernicon				
*NSP-X	A700	EGAS	PSL	***	EEFOD, EEFDD EEFLUD, EEFLUE	Poscap	***				
*NSP-X Series	***	***	***	CF, CJ, CG	ZC	OS-CON SVP, SVQ	PXS, PXF, PXE, PXA, PXH				
NSPVM											

* NIC Series that are new or have upgraded and/or expanded specifications. For more information please contact NIC or visit www.niccomp.com

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