

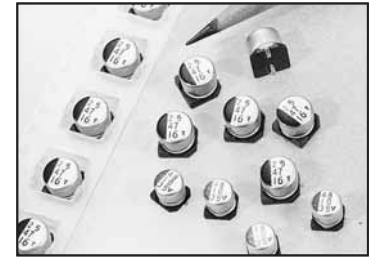
Surface Mount Aluminum Electrolytic Capacitors NAZV Series

FEATURES

- CYLINDRICAL V-CHIP CONSTRUCTION
- LONG LIFE (7,000 ~ 10,000 HOURS)
- WIDE TEMPERATURE RANGE (-25°C ~ +105°C)
- DESIGNED FOR REFLOW SOLDERING

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details

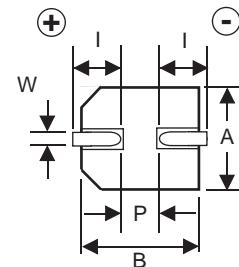
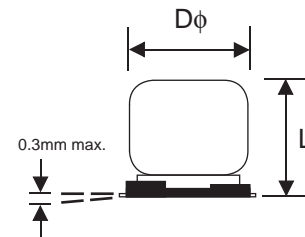


CHARACTERISTICS

Rated Voltage Range		6.3 ~ 50V					
Rated Capacitance Range		10 ~ 1000μF					
Operating Temperature Range		-25°C ~ +105°C					
Capacitance Tolerance		±20% (M)					
Max. Leakage Current After 2 Minutes at 20°C		0.01CV or 3μA whichever is greater					
Surge Voltage and Max. Tan δ	W.V. (Vdc)	6.3	10	16	25	35	50
	S.V.(Vdc)	8	13	20	32	44	63
	Tan δ	0.32	0.28	0.26	0.16	0.14	0.14
Low Temperature Stability (Impedance Ratio @ 120Hz)	Z-25°C/Z+20°C	4	3	2	2	2	2
	High Temperature Load Life at 105°C and Rated Working Voltage	Load Life Hours	φD ≤ 6.3mm = 7,000 φD ≥ 8 = 10,000 hours				
	Capacitance Change	Within ±30% of initial measured value					
	Tan δ	Less than 300% of specified value					
	Leakage Current	Less than the specified value					

STANDARD PRODUCT AND SIZE DφxL (mm)

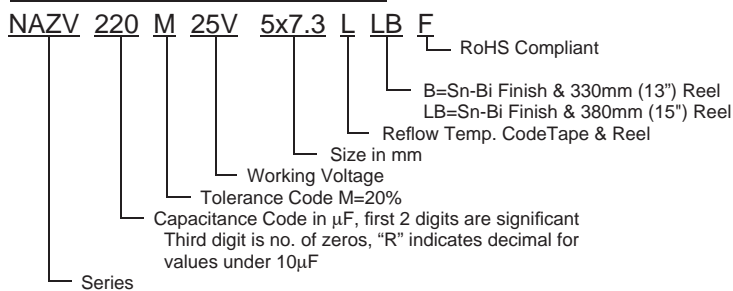
Cap. (μF)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
10	100	-	-	-	-	5X7.3	-
22	220	-	-	5X7.3	5X7.3	5X7.3	-
33	330	-	5X7.3	-	6.3X7.3	6.3X8.7	-
47	470	5X7.3	-	6.3X7.3	6.3X7.3	6.3X8.7	8X10.5
100	101	6.3X7.3	-	6.3X7.3	6.3X8.7	8X10.5	10X10.5
150	151	-	6.3X7.3	6.3X8.7	-	-	-
220	221	6.3X8.7	-	6.3X8.7	8X10.5	10X10.5	-
330	331	6.3X8.7	-	8X10.5	10X10.5	-	-
470	471	8X10.5	-	10X10.5	-	-	-
1000	102	10X10.5	-	-	-	-	-



DIMENSIONS (mm)

Case Size	Dφ±0.5	L max.	A/B±0.2	l ± 0.2	W	P±0.2
5X7.3	5	7.3	5.3	2.2	0.5 ~ 0.8	1.4
6.3X7.3	6.3	7.3	6.6	2.5	0.5 ~ 0.8	1.9
6.3X8.7	6.3	8.7	6.6	2.5	0.5 ~ 0.8	1.9
8X10.5	8	10.5	8.3	2.9	0.7 ~ 1.0	3.2
10X10.5	10	10.5	10.3	3.2	1.0 ~ 1.4	4.5

PART NUMBER SYSTEM



PRECAUTIONS

Please review the notes on correct use, safety and precautions found on pages T10 & T11 of NIC's Electrolytic Capacitor catalog.
Also 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



Surface Mount Aluminum Electrolytic Capacitors NAZV Series

STANDARD VALUES, CASE SIZES AND SPECIFICATIONS

NIC Part Number	Cap. (μF)	W.V. (Vdc)	Dissipation Factor (Tan δ)	Max. Ripple Current (mA) +105°C/100KHz	Max. Z (Ω) +20°C/100KHz	Load Life Hours @ +105°C
NAZV470M6.3V5X7.3LLBF	47	6.3	0.32	95	2.2	7,000
NAZV101M6.3V6.3X7.3LLBF	100		0.32	140	1.1	7,000
NAZV221M6.3V6.3X8.7LLBF	220		0.32	230	1.0	7,000
NAZV331M6.3V6.3X8.7LLBF	330		0.32	230	1.0	7,000
NAZV471M6.3V8X10.5LBF	470		0.32	600	0.22	10,000
NAZV102M6.3V10X10.5LBF	1000		0.32	850	0.16	10,000
NAZV330M10V5X7.3LLBF	33	10	0.28	95	2.2	7,000
NAZV151M10V6.3X7.3LLBF	150		0.28	140	1.1	7,000
NAZV220M16V5X7.3LLBF	22	16	0.26	95	2.2	7,000
NAZV470M16V6.3X7.3LLBF	47		0.26	140	1.1	7,000
NAZV101M16V6.3X7.3LLBF	100		0.26	140	1.1	7,000
NAZV151M16V6.3X8.7LLBF	150		0.26	230	1.0	7,000
NAZV221M16V6.3X8.7LLBF	220		0.26	230	1.0	7,000
NAZV331M16V8X10.5LBF	330		0.26	600	0.22	10,000
NAZV471M16V10X10.5LBF	470		0.26	850	0.16	10,000
NAZV220M25V5X7.3LLBF	22	25	0.16	95	2.2	7,000
NAZV330M25V6.3X7.3LLBF	33		0.16	140	1.1	7,000
NAZV470M25V6.3X7.3LLBF	47		0.16	140	1.1	7,000
NAZV101M25V6.3X8.7LLBF	100		0.16	230	1.0	7,000
NAZV221M25V8X10.5LBF	220		0.16	600	0.22	10,000
NAZV331M25V10X10.5LBF	330		0.16	850	0.16	10,000
NAZV100M35V5X7.3LLBF	10	35	0.14	95	2.2	7,000
NAZV220M35V5X7.3LLBF	22		0.14	95	2.2	7,000
NAZV330M35V6.3X8.7LLBF	33		0.14	230	1.0	7,000
NAZV470M35V6.3X8.7LLBF	47		0.14	230	1.0	7,000
NAZV101M35V8X10.5LBF	100		0.14	600	0.22	10,000
NAZV221M35V10X10.5LBF	220		0.14	850	0.16	10,000
NAZV470M50V8X10.5LBF	47	50	0.14	350	0.53	10,000
NAZV101M50V10X10.5LBF	100		0.14	850	0.35	10,000

RIPPLE CURRENT FREQUENCY CORRECTION FACTORS

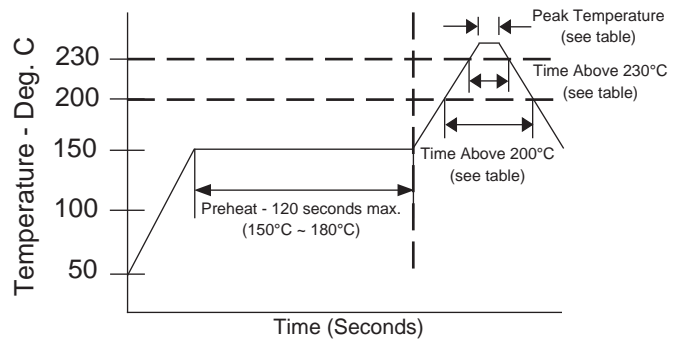
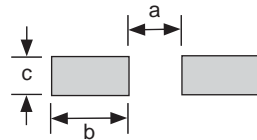
Cap. (μF)	Frequency			
	120Hz	1KHz	10KHz	100KHz
10 ~ 22	0.50	0.80	0.90	1.00
33 ~ 150	0.65	0.85	0.95	1.00
220 ~ 1000	0.70	0.85	0.95	1.00

PEAK REFLOW TEMPERATURE AND DURATION

Diameter	Time above 200°C	Time above 230°C	Peak Temperature 5 seconds
5 ~ 6.3mm φ	70 sec. max.	40 sec. max.	250°C
8 ~ 10mm φ	60 sec. max.	20 sec. max.	250°C

RECOMMENDED LAND PATTERN DIMENSIONS (mm)

Case Size	a	b	c
5x7.3	1.4	3.0	1.8
6.3x7.3 6.3x8.7	2.1	3.5	1.8
8x10.5	2.8	4.1	2.1
10x10.5	4.3	4.4	2.5



Review & Compare Reflow Soldering Heat Limits
V-chip SMT Aluminum Electrolytic Capacitors
www.niccomp.com/RSL

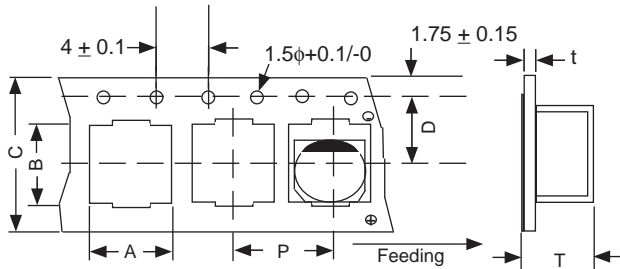


EMBOSSED CARRIER DIMENSIONS (mm)

Case Size	A ± 0.3	B ± 0.3	C ± 0.3	D ± 0.1	P ± 0.1	T ± 0.2	t ± 0.1
5X7.3	5.7	5.7	12.0	5.5	12.0	7.1	0.4
6.3X7.3	7.0	7.0	16.0	7.5	12.0	7.5	0.4
6.3X8.7	7.0	7.0	16.0	7.5	12.0	9.2	0.4
8X10.5	8.7	8.7	24.0	11.5	16.0	11.1	0.4
10X10.5	10.7	10.7	24.0	11.5	16.0	11.2	0.4

TAPING SPECIFICATIONS (mm)

- Both Leader and Trailer tape: Minimum 40mm (1.57") empty carrier tape pockets.
- Leader tape: Approximately 20cm of cover tape at leader.
- Connection: Maximum 3 connections (slices) per reel.



REEL DIMENSIONS AND QUANTITIES

Case Size	W ± 1.0	Reel Quantity 330mm	Reel Quantity 380mm
5X7.3	14	/	1,000
6.3X7.3	18	/	1,000
6.3X8.7	18	/	800
8X10.5	26	300	500
10X10.5	26	300	500

