Surface Mount Aluminum Electrolytic Capacitors

NACHL Series

FEATURES

- CYLINDRICAL LEADLESS TYPE FOR SURFACE MOUNTING
- HIGH TEMPERATURE, EXTEND LIFE (5000 HOURS @ 105°C)
- LOW IMPEDANCE AND HIGH RIPPLE CURRENT
- 4X6.1mm ~ 10X10.5mm SIZE

NEW!

SURFACE MOUNT

CHARACTERISTICS

Rated Voltage Range		10 ~ 100 Vdc						
Rated Capacitance Range		0.47 ~ 330µF						
Operating Temperature Range		- 40°C ~ + 105°C						
Capacitance Tolerance		± 20% (M)						
Max. Leakage Current After 2 Minutes		0.01CV or 3µA whichever is greater						
Working Voltage		10Vdc	16Vdc	25Vdc	35Vdc	50Vdc	63Vdc	100Vdc
Surge Voltage		13Vdc	20Vdc	32Vdc	44Vdc	63Vdc	79Vdc	125Vdc
Max. Tanδ at 120Hz & 20°C		0.19	0.15	0.14	0.12	0.10	0.08	0.07
Low Temerature Stability (Impedance Ration @ 120Hz)	Z -25°C/Z +20°C	6	2	2	2	2	2	2
	Z -40°C/Z +20°C	12	5	3	3	3	3	3
High Temperature Load Life 5000 Hours at +105°C Rated WVDC	Capacitance Change	Within ± 30% of initial measured value						
	Tan δ	Less than 300% of specified value						
	Leakage Current	Less than the specified maximum value						
Shelf LIfe Test 1,000 Hours at +105°C Rated WVDC	Capacitance Change	Within ± 20% of initial measured value						
	Tan δ	Less than 200% of specified maximum value						
	Leakage Current	Less than the specified maximum value						

MAXIMUM RIPPLE CURRENT (mA rms AT 120Hz AND 105°C)

Cap (µF)	Working Voltage (Vdc)						
	10	16	25	35	50	63	100
0.47	-	-	-	-	5	-	-
1.0	-	-	-	-	7	-	-
2.2	-	-	-	-	12	-	-
3.3	-	-	-	-	16	-	30
4.7	-	-	15	17	21	-	50
10	-	20	26	28	33	45	55
22	-	33	42	47	50	65	70
33	-	-	52	53	74	80	-
47	-	55	56	79	94	-	-
100	62	89	84	101	-	-	-
220	93	113	-	-	-	-	-
330	118	-	-	-	-	-	-

MAXIMUM IMPEDANCE (Ω AT 100KHz AND 20°C)

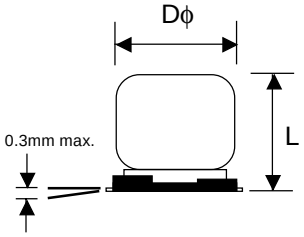
Cap (µF)	Working Voltage (Vdc)						
	10	16	25	35	50	63	100
0.47	-	-	-	-	12.0	-	-
1.0	-	-	-	-	12.0	-	-
2.2	-	-	-	-	12.0	-	-
3.3	-	-	-	-	12.0	-	2.0
4.7	-	-	12.0	12.0	7.2	-	1.5
10	-	12.0	7.2	7.2	4.0	2.0	1.5
22	-	7.2	4.0	4.0	2.0	1.5	0.8
33	-	-	4.0	2.0	1.5	0.8	-
47	-	4.0	2.0	1.5	0.8	-	-
100	2.0	1.5	1.2	0.8	-	-	-
220	1.5	0.8	-	-	-	-	-
330	0.8	-	-	-	-	-	-

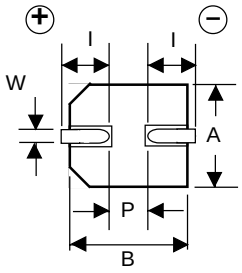
NACHL 101 M 16V 8x10.5 TR 13

- 330mm (13") Reel
- Tape & Reel
- Size in mm
- Working Voltage
- Tolerance Code M=20%, K=10%
- Capacitance Code in µF, first 2 digits are significant Third digit is no. of zeros, "R" indicates decimal for values under 10µF
- Series

STANDARD PRODUCT AND CASE SIZE TABLE DØxL (mm)

Cap (µF)	Code	Working Voltage (Vdc)						
		10	16	25	35	50	63	100
0.47	R47					4x6.1		
1.0	1R0					4x6.1		
2.2	2R2					4x6.1		
3.3	3R3					4x6.1		8x6.5
4.7	4R7			4x6.1	4x6.1	5x6.1		8x10.5
10	100		4x6.1	5x6.1	5x6.1	6.3x6.1	8x6.5	8x10.5
22	220		5x6.1	6.3x6.1	6.3x6.1	8x6.5	8x10.5	10x10.5
33	330			6.3x6.1	8x6.5	8x10.5	10x10.5	
47	470		6.3x6.1	8x6.5	8x10.5	10x10.5		
100	101	8x6.5	8x10.5	8x10.5	10x10.5			
220	221	8x10.5	10x10.5					
330	331	10x10.5						





SEE PAGE 38
For Case Size Data
SEE PAGE 39
For Taping/Packaging Data