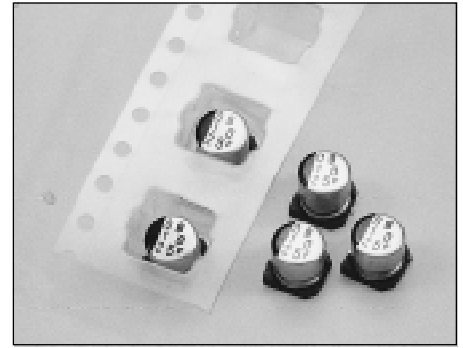


FEATURES

- CYLINDRICAL LEADLESS TYPE FOR SURFACE MOUNTING
- LOW PROFILE, 5.5mm MAXIMUM HEIGHT
- REDUCED SIZES
- SPACE AND COST SAVINGS
- ANTI-SOLVENT (2 MINUTES)
- DESIGNED FOR AUTOMATIC MOUNTING & REFLOW SOLDERING

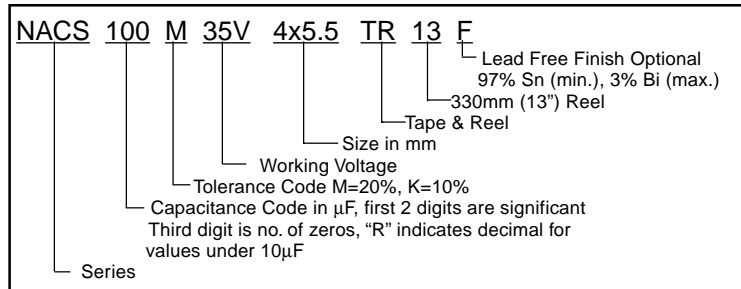
CHARACTERISTICS

Rated Voltage Range	6.3 ~ 50 Vdc**						
Rated Capacitance Range	4.7 ~ 220 μ F						
Operating Temp. Range	-40° ~ +85°C						
Capacitance Tolerance	\pm 20%(M), \pm 10%(K)*						
Max. Leakage Current After 2 Minutes at 20°C	0.01CV or 3 μ A, whichever is greater						
Surge Voltage & Max. Tan δ	W.V. (Vdc)	6.3	10	16	25	35	50
	S.V. (Vdc)	8.0	13	20	32	44	63
	Tan δ @ 120Hz/20°C	0.28	0.24	0.20	0.16	0.14	0.12
Low Temperature Stability (Impedance Ratio @ 120Hz)	W.V. (Vdc)	6.3	10	16	25	35	50
	Z-40°C/Z+20°C	4	3	2	2	2	2
	Z-55°C/Z+20°C	10	8	6	4	4	4
Load Life Test at Rated W.V. 85°C 2,000 Hours	Capacitance Change	Within \pm 25% of initial measured value					
	Tan δ	Less than 200% of specified value					
	Leakage Current	Less than specified value					



SURFACE MOUNT

* Optional \pm 10% (K) Tolerance available on most values. Contact factory for availability.
 ** For higher voltages, 200V and 400V, see NACV series.



MAXIMUM ESR

(Ω AT 20°C AND 120Hz)

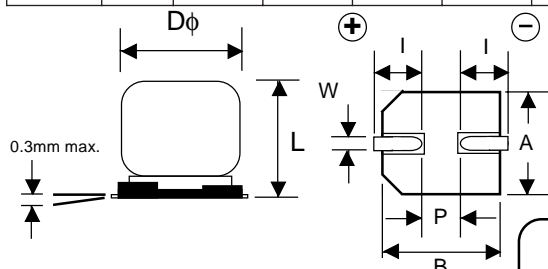
Cap (μ F)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
4.7						42.3
10				26.5	23.2	19.9
22		18.1	15.1	12.1	10.6	9.05
33	14.1	12.6	10.1	8.04	7.04	
47	9.88	8.47	7.06	5.65		
56	8.29	7.11	5.92	4.74		
100	4.64	3.98				
150	3.10	2.66				
220	2.11					

STANDARD PRODUCTION SIZE \varnothing x L

Cap. (μ F)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
4.7	4R7						4x5.5
10	100				4x5.5	4x5.5	5x5.5
22	220		4x5.5	4x5.5	5x5.5	5x5.5	6.3x5.5
33	330	4x5.5	4x5.5	5x5.5	5x5.5	6.3x5.5	
47	470	4x5.5	5x5.5	5x5.5	6.3x5.5		
56	560	5x5.5	5x5.5	5x5.5	6.3x5.5		
100	101	5x5.5	5x5.5				
150	151	6.3x5.5	6.3x5.5				
220	221	6.3x5.5					

MAXIMUM PERMISSIBLE RIPPLE CURRENT (mA rms AT 120Hz AND 85°C)

Cap. (μ F)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
4.7						18
10				20	20	27
22		28	28	35	36	40
33	31	32	40	42	65	
47	36	43	44	65		
56	46	46	48	68		
100	47	50				
150	71	76				
220	74					



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

RIPPLE CURRENT CORRECTION FACTOR

Frequency Hz	50 \leq f < 100	100 \leq f < 1K	1K \leq f < 10K	f \geq 10K
Correction Factor	0.8	1.0	1.3	1.5

