

FEATURES

- EXTENDED TEMPERATURE **+125°C**
- CYLINDRICAL LEADLESS TYPE FOR SURFACE MOUNTING
- WIDE TEMPERATURE RANGE AND HIGH RIPPLE CURRENT
- DESIGNED FOR AUTOMATIC MOUNTING AND REFLOW SOLDERING



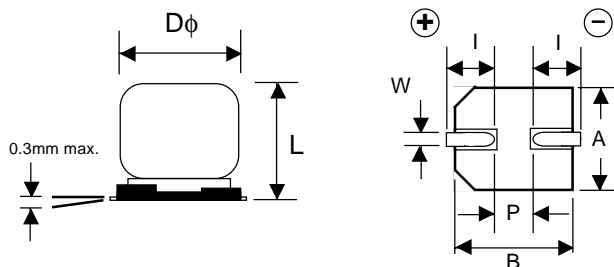
CHARACTERISTICS

Rated Voltage Range	6.3 ~ 50 Vdc						
Rated Capacitance Range	33 ~ 1500μF						
Operating Temperature Range	-40° ~ +125°C						
Capacitance Tolerance	±20%(M), ±10%(K)*						
Max. Leakage Current After 2 Minutes at 20°C	0.01CV or 3μA, 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
	Tanδ @ 120Hz/20°C	0.30	0.24	0.20	0.16	0.14	0.14
Low Temperature Stability (Impedance Ratio @ 120Hz)	W.V. (Vdc)	6.3	10	16	25	35	50
	Z-25°C/Z +20°C	4	3	2	2	2	2
	Z-40°C/Z +20°C	8	6	4	4	3	3
Load Life Test at Rated W.V. 125°C 1,500 Hours	Capacitance Change	Within +25% of initial measured value					
	Tanδ	Less than 300% of specified value					
	Leakage Current	Less than specified value					

*Optional ± 10% (K) Tolerance available on most values. Contact factory for availability.

STANDARD PRODUCTION SIZE DØ xL (mm)

Cap.(μF)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
33	330						8x10.5
47	470					8x10.5	10x10.5
100	101				8x10.5	10x10.5	12.5x14
150	151					12.5x14	12.5x14
220	221			8x10.5	10x10.5	12.5x14	12.5x14
330	331		8x10.5	10x10.5	12.5x14		
470	471	8x10.5	10x10.5	12.5x14			
680	681	10x10.5	12.5x14	12.5x14			
1000	102	12.5x14	12.5x14				
1500	152	12.5x14					



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

MAXIMUM PERMISSIBLE RIPPLE CURRENT (mA rms AT 120Hz AND 125°C)

Cap. (μF)	Working Voltage					
	6.3	10	16	25	35	50
33						100
47					110	160
100				110	190	210
150					250	220
220			120	200	260	220
330		120	210	270		
470	140	210	290			
680	210	300	300			
1000	330	320				
1500	350					

MAXIMUM ESR (Ω AT 20°C AND 120Hz)

Cap. (μF)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
33						7.05
47					4.95	4.95
100				2.65	2.32	2.32
150					1.55	1.55
220			1.51	1.21	1.06	1.06
330		1.21	1.01	0.81		
470	1.06	0.85	0.71			
680	0.73	0.59	0.49			
1000	0.50	0.40				
1500	0.33					

RIPPLE CURRENT CORRECTION FACTOR

Frequency (Hz)	100 ≤ f < 1K	1K ≤ f < 10K	10K ≤ f < 100K	100K ≤ f
C ≤ 33μF	1.0	1.2	1.3	1.45
33μF < C	1.0	1.1	1.2	1.3

