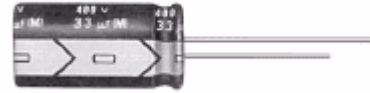


- Long useful life: 5000 hours at 105°C
- High rated voltage, up to 450V
- Lighting, monitors, general industrial
- Filtering of high voltages in power supplies

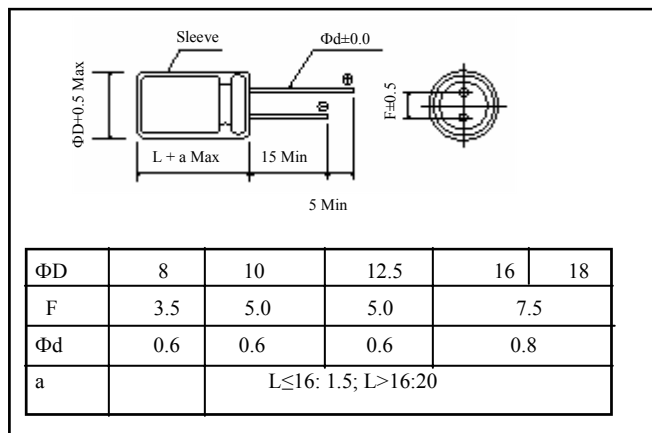


■ SPECIFICATIONS

Item	Characteristics																					
Operating Temperature Range (°C)	-40~+105	-25~+105																				
Rated Voltage Range (V)	160~250	350~450																				
Capacitance Tolerance (25°C, 100Hz)	±20%																					
Leakage Current (μ A)	CV≤1000:1≤0.06CV+40CV>1000:1≤0.03CV+70(25°C, after 1 minute) C:Nominal capacitance (μ F); V: Rated voltage (V)																					
Dissipation Factor (25°C, 100Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.12</td> <td>0.12</td> <td>0.12</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </tbody> </table>						Rated Voltage (V)	160	200	250	350	400	450	tan δ	0.12	0.12	0.12	0.15	0.15	0.20		
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■ DIMENSIONS

mm



■ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)	50,60	100	300	1K	≥10K
Factor	0.75	1.0	1.20	1.35	1.50

Temperature coefficient

Temperature (°C)	+70	+85	+105
Factor	1.8	1.4	1.0

STANDARD RATINGS

Unless otherwise specified, all electrical values in table 1 apply at $T_{amb} +25^{\circ}C$

SYMBOL	DESCRIPTION
Cap	Nominal capacitance at 100 Hz, tolerance $\pm 20\%$
I_R	Rated RMS ripple current at 100Hz, $105^{\circ}C$
ESR	Equivalent series resistance at 100Hz (calculated from $\tan \delta_{MAX}$ and C_R)
$ Z $	Max impedance at 10KHz

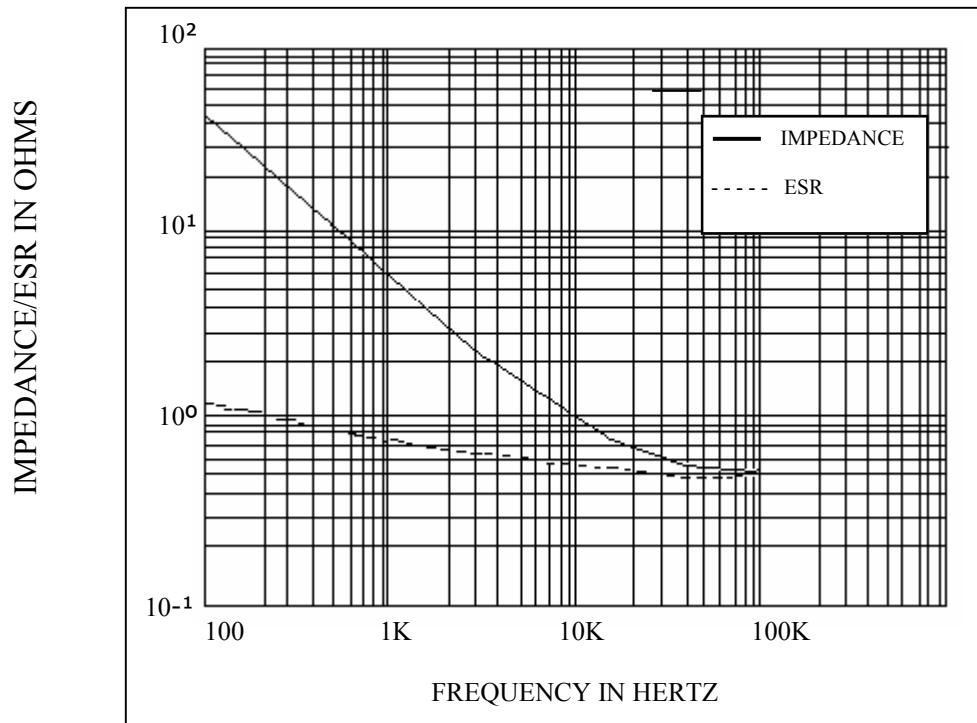
Table 1

WV (v) Cap(μF)	160				200				250			
	Case	$ Z $	ESR	I_R	Case	$ Z $	ESR	I_R	Case	$ Z $	ESR	I_R
	$\Phi D \times L$ (mm)	Ω	Ω	mA	$\Phi D \times L$ (mm)	Ω	Ω	mA	$\Phi D \times L$ (mm)	Ω	Ω	mA
4.7	-	-	-	-	10x12.5	13.0	41	60	10x12.5	13.0	41	60
10	10x16	6.3	19	95	10x16	6.3	19	95	10x20	6.3	19	105
22	10x20	3.2	9	145	10x20	3.2	9	145	12.5x25	3.2	9	180
					16x20							
33	12.5x20	2.3	6	190	12.5x20	2.3	6	190	12.5x25	2.3	6	250
					16x20							
47	12.5x25	1.7	4	280	12.5x25	1.7	4	280	16x25	1.7	4	300
	16x20				18x20							
100	16x25	1.1	2	380	16x31.5	1.1	2	410	16x31.5	1.1	2	410
	18x20				18x25							
220	18x35.5	0.8	0.9	630	-	-	-	-	-	-	-	-

WV (v) Cap(μF)	350				400				450			
	Case	$ Z $	ESR	I_R	Case	$ Z $	ESR	I_R	Case	$ Z $	ESR	I_R
	$\Phi D \times L$ (mm)	Ω	Ω	mA	$\Phi D \times L$ (mm)	Ω	Ω	mA	$\Phi D \times L$ (mm)	Ω	Ω	mA
1.0	-	-	-	-	-	-	-	-	10x12.5	94	318	30
2.2	-	-	-	-	10x12.5	33	109	40	10x16	43	145	45
3.3	10x12.5	22	72	50	10x16	22	72	50	10x20	29	96	65
4.7	10x16	16	51	65	10x20	16	51	70	12.5x20	20	68	80
10	12.5x20	7.6	24	120	12.5x20	7.6	24	120	16x20	10	32	140
22	12.5x25	3.8	11	180	16x25	3.8	11	200	16x31.5	4.6	14	220
	16x20				18x25							
33	16x25	2.6	7	210	16x31.5	2.6	7	245	18x35.5	3.4	10	280
	-				18x25				-			
47	16x35.5	2.0	5	300	18x31.5	2.0	5	300	-	-	-	-
	18x31.5				-							

■ Typical curves

450V 33 μ F Φ 18x35.5



200V 47 μ F Φ 12.5x25

