

WA SERIES
85°C 9mm~25mm Height
◆FEATURES

- 9~25mm height.
- RoHS compliance.


◆SPECIFICATIONS

Items	Characteristics																																											
Category Temperature Range	-40~+85°C	-25~+85°C																																										
Rated Voltage Range	6.3~250Vdc	350~450Vdc																																										
Capacitance Tolerance	±20%(20°C, 120Hz)																																											
Leakage Current(MAX)	6.3~50Vdc	160~450Vdc																																										
	I=0.01CV or 3µA whichever is greater. (After 2 minutes application of rated voltage)	CV≤1000	CV>1000																																									
		I=0.1CV+40µA (1minute) I=0.03CV+15µA (5minutes)	I=0.04CV+100µA (1minute) I=0.02CV+25µA (5minutes)																																									
	I=Leakage Current(µA)	C=Capacitance(µF) V=Rated Voltage(Vdc)																																										
(tanδ) Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td></td> </tr> </tbody> </table> <p>When capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.</p>		Rated Voltage (Vdc)	6.3	10	16	25	35	50	160	200	250	350	400	450	(20°C, 120Hz)	tanδ	0.26	0.22	0.18	0.16	0.14	0.12	0.20	0.20	0.20	0.20	0.20	0.20															
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Endurance	After applying rated voltage with rated ripple current for 2000 hours at 85°C, the capacitors shall meet the following requirements.																																											
	Capacitance Change	Within ±25% of the initial value.																																										
	Dissipation Factor	Not more than 200% of the specified value.																																										
Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> <td>3</td> <td>5</td> <td>5</td> <td>7</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> </tr> </tbody> </table>		Rated Voltage (Vdc)	6.3	10	16	25	35	50	160	200	250	350	400	450	(120Hz)	Z(-25°C)/Z(20°C)	6	4	4	3	2	2	3	3	3	5	5	7		Z(-40°C)/Z(20°C)	12	10	8	6	4	3	-	-	-	-	-	-	
	Rated Voltage (Vdc)	6.3	10	16	25	35	50	160	200	250	350	400	450	(120Hz)																														
	Z(-25°C)/Z(20°C)	6	4	4	3	2	2	3	3	3	5	5	7																															
Z(-40°C)/Z(20°C)	12	10	8	6	4	3	-	-	-	-	-	-																																

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	1.5~6.8µF	0.65	1.00	1.20	1.30	1.50
	10~68µF	0.80	1.00	1.20	1.30	1.50
	100~1000µF	0.80	1.00	1.10	1.15	1.20
	2200~10000µF	0.80	1.00	1.05	1.10	1.15

◆OPTION

	Code
PET Sleeve	EFC

◆PART NUMBER

□□□	WA	□□□□□	M	□□□	□□	D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

