

WA SERIES
85°C Miniaturized low profile.
◆FEATURES

- 9~25mm height.
- RoHS compliance.


◆SPECIFICATIONS

Items	Characteristics											
Category Temperature Range	-40~+85°C	-25~+85°C										
Rated Voltage Range	6.3~250V.DC	350~450V.DC										
Capacitance Tolerance	±20%(20°C, 120Hz)											
Leakage Current(MAX)	6.3~50V.DC	160~450V.DC										
	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage)	CV ≤ 1000 I=0.1CV+40 μA (1 minute) I=0.03CV+15 μA (5 minutes)	CV > 1000 I=0.04CV+100 μA (1 minute) I=0.02CV+25 μA (5 minutes)									
I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)												
Dissipation Factor(MAX) (tan δ)	Rated Voltage (V) 6.3 10 16 25 35 50 160 200 250 350 400 450 (20°C, 120Hz)											
	tan δ 0.26 0.22 0.18 0.16 0.14 0.12 0.20 0.20 0.20 0.20 0.20 0.20											
When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.												
Endurance	After applying rated voltage with rated ripple current for 2000hrs 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)	Rated Voltage (V) 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 coefficient

Coefficient	Frequency (Hz)	60(50)	120	500	1k	10k ≤
	1.5~6.8 μF	0.65	1.0	1.20	1.30	1.50
10~68 μF	0.8	1.0	1.20	1.30	1.50	
100~1000 μF	0.8	1.0	1.10	1.15	1.20	
2200~10000 μF	0.8	1.0	1.05	1.10	1.15	

◆PART NUMBER

□□□	WA	□□□□□	□	□□□	□□	DXL
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

