

**HITANO**

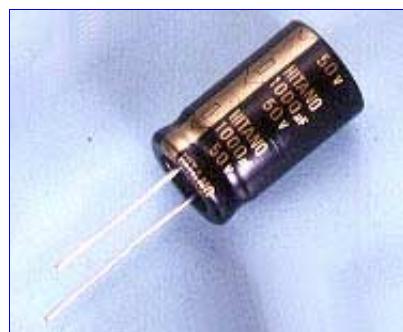
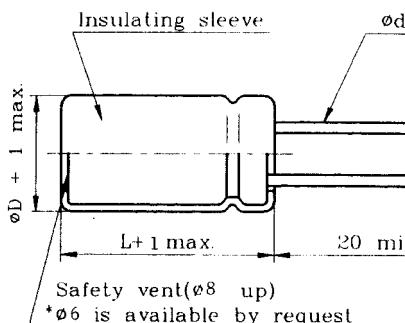
ENTERPRISE CORP. ®

## EXR SERIES

- EXR series capacitors are ideal for use in switching power supplies.
- Other High Frequency Applications.
- **Low Impedance** and long life.

### Characteristics

Voltage Range	6.3 ~ 100V													
Capacitance Range	4.7 ~3300uF													
Temperature Range	-55 ~ + 105°C													
Leakage Current	I=0.01CV or 3uA, whichever is greater (After 2 minutes) I=0.03CV or 4uA, whichever is greater (After 1 minutes)													
Capacitance Tolerance	$\pm 20\%$ at 120Hz , 20°C													
Dissipation Factor	WV	6.3	10	16	25	35	50	63	100					
	$\tan \delta$	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08					
	For capacitance > 1000uF, add 0.02 for every 1000uF.(at 20°C, 120Hz)													
Low temperature Characteristics	Impedance ration at 120Hz													
	Rated Voltage (V)	6.3~10		16~35		50~100								
	Z-25°C/Z 20°C	4		3		2								
Load life after application of the rated voltage for 2000 hrs at 105°C	Leakage current	Less than specified value												
	Capacitance change	Within $\pm 20\%$ of initial value												
	$\tan \delta$	Less than 200% of specified value												
Shelf life (at 105°C)	After 1000 hrs no load test, leakage current, capacitance and $\tan \delta$ are same as load life value.													



### Drawing

D $\phi$	5	6.3	8	10	13	16	18
p	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d $\phi$	0.5	0.5	0.5	0.6	0.6	0.8	0.8

### Ripple Current Coefficients

Frequency (Hz)	60	120	400	1K	10K	100K
W.V.	Multiplier					
10~16V	0.45	0.60	0.83	0.94	0.98	1.00
25~35V	0.38	0.50	0.75	0.90	0.97	1.00
50~100V	0.36	0.46	0.70	0.88	0.94	1.00

Temperature(°C)	65	75	85	95	105
Multiplier	2.12	1.92	1.69	1.50	1.00



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## Dimensions, Maximum Permissible Ripple Current & Impedance

WV uF	6.3			10			16			25		
	DΦxL(mm)	Impedance (Ω) max 20°C 100KHZ	Ripple Current mA(rms)	DΦxL(mm)	Impedance (Ω) max 20°C 100KHZ	Ripple Current mA (rms)	DΦxL(mm)	Impedance (Ω) max 20°C 100KHZ	Ripple Current mA(rms)	DΦxL(mm)	Impedance (Ω) max 20°C 100KHZ	Ripple Current mA(rms)
<b>100</b>							6.3x11	0.65	180	6.3x11	0.25	295
<b>220</b>	6.3x11	0.65	180	6.3X11	0.25	295	8x12	0.25	295	8x12	0.15	555
<b>330</b>	8x12	0.25	295	8x12	0.25	295	8x12	0.15	555	8x14	0.15	555
<b>470</b>	8x12	0.25	295	8x12	0.15	555	10x12.5	0.12	587	10x16	0.09	760
<b>680</b>	8x14	0.17	428	8x14	0.10	805	10x16	0.08	850	10x21	0.062	1102
<b>1000</b>	8x14	0.10	555	10x12.5	0.08	760	10x21	0.068	1050	13x21	0.052	1220
<b>1500</b>	10x16	0.08	801	10x21	0.07	1000	13x21	0.045	1575	13x26	0.035	1830
<b>2200</b>	10x21	0.068	1050	10x21	0.052	1220	13x21	0.039	1660	16x26	0.030	1950
<b>3300</b>	10x21	0.052	1220	13x21	0.039	1660	16x26	0.03	1950	16x31	0.022	2150
<b>4700</b>	13x21	0.039	1660	13x26	0.03	1950	16x31	0.022	2150	16x36	0.018	2400
<b>6800</b>	16x26	0.03	1950	16x26	0.022	2150	16x36	0.018	2400	18X41	0.015	3550
<b>10000</b>	16x31	0.022	2150	16x31	0.018	2400	18x36	0.015	2800			