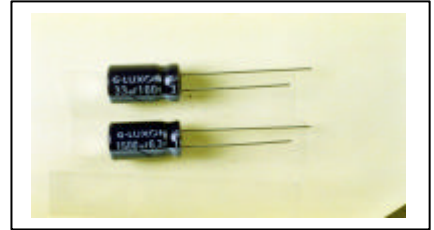


GR Series

Features
 Lifetime:85 ,2000hrs
 General purpose

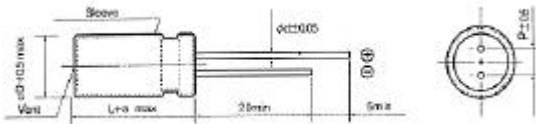
Recommended Applications
 AV(TV, Video, Audio)
 Monitor/Computer
 OA/HA/Communication



Specifications

Items	Characteristics															
Capacitance Tolerance	± 20% (M) (120Hz,20)															
Rated Voltage Range (WV)	6.3~100VDC										160~450VDC					
Operating Temperature Range	-40 ~ +85										-25 ~ +85					
Surge Voltage (V) (20)	WV	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	SV	8	13	20	32	44	63	79	125	200	250	300	400	450	500	
Leakage Current (Max) (20)	I = 0.01CV or 3 μ A whichever is greater (After rated voltage applied for 2 minutes)										I = 0.03CV+10 μ A (After rated voltage applied for 3 minutes)					
	I= Leakage Current (μ A) C= Nominal Capacitance (μ F) V= Rated Voltage (V)															
Dissipation Factor (Max) (tan) (120Hz ,20)	WV	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	tan	0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.24	0.24	0.24
When nominal capacitance is over 1000 μ F, tan shall be added 0.02 to the listed value with increase of every 1000 μ F.																
Low Temperature Stability Impedance Ratio (Max)	WV		6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	Z (120Hz)															
	Z(-25) / Z(20)			4	3	2	2	2	2	2	2	3	3	3	4	4
Z(-40) / Z(20)			8	6	4	4	3	3	3	3	-	-	-	-	-	-
Load Life	After applying rated voltage for 2000 hours at 85 , the capacitor shall meet the following requirement.															
	Capacitance Change					Within ± 20% of the initial value										
	Dissipation Factor					Not more than 200% of the specified value										
	Leakage Current					Not more than the specified value										
Shelf Life	After placed at 85 without voltage applied for 1000 hours, the capacitor shall meet the same requirement as load life .															
Applicable standards	Refer to JIS C 5101															

Dimensions (mm)



D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6 (0.8)	0.8	0.8
a	1.0	1.0	1.0	1.0	2.0	2.0	2.0

() : L 30

Multiplier for Ripple Current

Frequency coefficient

WV (VDC)	Freq.(Hz)	50	120	1K	10K~100K
6.3~100	0.1~82	0.75	1.00	1.57	2.00
	100~820	0.80	1.00	1.34	1.50
	1000~22000	0.85	1.00	1.13	1.15
160~450	0.47~1000	0.80	1.00	1.40	1.60

Temperature coefficient

Ambient Temperature ()	50	70	85
Coefficient	1.36	1.25	1.00

