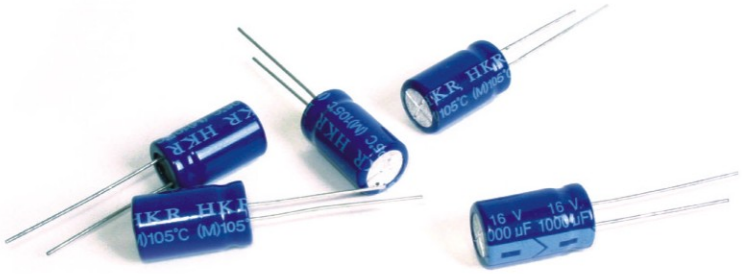
ALUMINUM ELECTROLYTIC CAPACITOR 鋁電解電容器

GS
GU
HS
NP
ST



FEATURES 特性

* For general purpose.
* Wide CV value range.
* Load life 1000 Hrs at 85℃ and 2000 Hrs at 105℃.
* Safety vent construction design.

GENERAL DATA OF COMMON SERIES 一般資料

SERIES	TYPE	FEATURE	OPERATING TEMPERATURE RANGE	WORKING VOLTAGE	CAPACITANCE	LEAKAGE CURRENT 1≤(μA)	LOAD LIFE (HRS)
GS	Radial	General purpose	−40 to + 85℃	6.3~100V	0.1~1500 μf	0.01CV or 3 μA	2000
		Standard Size	−25 to + 85℃	160~450V	0.47~220 μf	0.03CV μA	
GU	Radial	Small size height 5mm / 5mm	−40 to + 85℃	4~50V	0.1~220 μf	0.01CV or 3 μA	1000
HS	Radial	Small size height 7mm / 5mm	−40 to + 85℃	4~63V	0.1~470 μf	0.01CV or 3 μA	1000
NP	Radial	Non−Polarized	−40 to + 85℃	10~100V	0.47~1000 μf	0.03CV or 3 μA	2000
			−25 to + 105℃	160~250V			
ST	Snap−in	PCB Snap−in	−40 to + 85℃	10~100V	470~68000 μf	0.02CV μA	2000
		Terminal Type	−25 to + 85℃	160~250V	47~2700 μf		

SPECIFICATIONS 規格

ITEM	PERFORMANCE CHARACTERISTICS								
OPERATION TEMPERATURE RANGE	−40 to + 85℃				−25 to + 85℃				
RATE WORKING VOLTAGE RANGE	6.3 to 100 VDC				160 to 450 VDC				
NOMINAL CAPACITANCE RANGE	0.1 to 15,000 μf				0.47 to 220 μf				
CAPACITANCE TOLERANCE	± 20%(120Hz, +20℃)								
LEAKAGE CURRENT (+20℃)	1≤0.01CV or 3 (μA) After 1 minute whichever is greater measured with rate working voltage applied				1≤0.03CV or 3 (μA) After 1 minute with rate working voltage applied.				
DISSIPATION FACTOR (120HZ, +20℃)	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100
	D.F. Max(%)	22	19	16	14	12	10	9	8
	Working Voltage (VDC)	160	200	250	350	400	450		
	D.F. Max(%)	16	18	18	20	20	20		
	For capacitance > 100 μf, add 2% per another 100 μf								
LOW IMPEDANCE	Max. C−Z {Rote cap. (μf) x Impedance (Ω)} value at 10K Hz								
	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100
	C−Z max. At + 20℃	220	160	125	90	80	60	55	50
	C−Z max. At − 40℃	3000	1900	1300	800	650	560	500	450
	Working Voltage (VDC)	110	200	250	350	400			450
	C−Z max. At + 20℃	100	140	150	170	220			270
	C−Z max. At − 40℃	2400	2500	3100	3500	9000			1200
LOW TEMPERATURE CHARACTERISTICS	Impedance ratio max.								
	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100
	−25℃/+20℃	4	3	2	2	2	2	2	2
	−40℃/+20℃	8	6	4	4	3	3	3	3
	Working Voltage (VDC)	160	200	250	350	400	450		
	−25℃/+20℃	2	2	3	5	15	15		
	For Capacitance Value 100 μf, add 0.5 per another 100 μf for −25℃/+20℃; add 1 per another 1000 μA for −40℃/+20℃								
LOAD LIFE	Test conditions Duration time : 2000 Hrs Ambient temperature : ± 85℃ Applied voltage : Rate DC working voltage								
	After Test requirements at+20℃ Capacitance change : ≤ ± 20% of the initial measured value Dissipation factor : ≤150% of the initial specified value Leakage current : ≤The initial specified value								
SHELF LIFE	Test conditions Duration time : 500 Hrs Ambient temperature : ± 85℃ Applied voltage : None After test requirements at +20℃ : Same limits as load life. Pre−treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.								