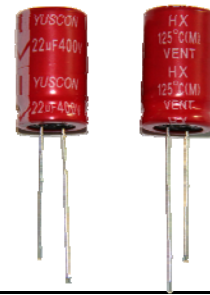


Aluminum Electrolytic Capacitors

YUSCON®

HX SERIES

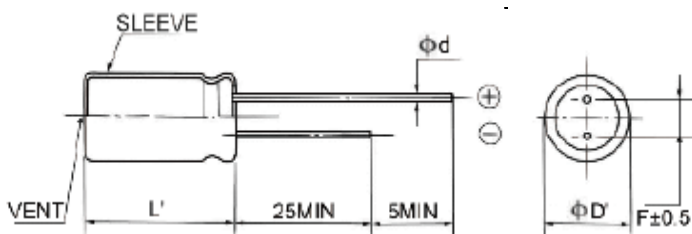
- For automobile modules and other high temperature application.
- Endurance: 125°C 3000 hours.
- Down size, long life, Low Impedance and better low temperature characteristics.
- Rohs compliance.



◆ SPECIFICATIONS

Item	Characteristics									
Temperature Range	-20 to +125℃									
Rated Voltage Range	160 to 450 WV.DC									
Surge Voltage	W.V.	160	200	250	350	400	450			at 25℃
	S.V.	200	250	300	400	450	500			
Capacitance Tolerance	- 20%(M) ~ + 20% (at 25℃, 120Hz)									
Leakage Current	I = 0.01CV, whichever is greater. at 25℃ After 1 minutes I: Max. Leakage Current (μA) C: Rated Capacitance (μF) V: Rated voltage (V)									
Dissipation Factor (tanδ)	Rated voltage (V)	160~250				350~450				at 25℃ , 120Hz
	Tanδ(Max)	0.12				0.15				
Low Temperature Characteristics	Impedance ratio at 120Hz									
	Rated voltage (V)		160~250				350~450			
	Z-25℃/Z+20℃		3				6			
Endurance	The following specification shall be satisfied when the capacitors are restored to 20℃ after subjected DC voltage with the rated ripple current is applied for 3000 hours at 125℃.									
	Capacitance Change		≧ ±20% of the initial value							
	Dissipation Factor		≧ 200% of the initial specified value							
	Leakage Current		≧ initial specified value							
Shelf Life	The following specification shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000hours(500 hours for 350 to 450WV) at 125℃ without voltage applied .									
	Capacitance Change		≧ ±20% of the initial value							
	Dissipation Factor		≧ 200% of the initial specified value							
	Leakage Current		≧ 200% of the initial specified value							

◆ DRAWING



ψD	8	10~13	16~18	20~22
ψd	0.6		0.8	
F	3.5	5	7.5	10
ψD'	D + 0.5 max			D + 1.0 max
L'	L + 1.5 max			L + 2.0 max

◆ PART NUMBERING SYSTEM

HX	□□□	□	□□□	□	□□
Series	Rated Cap.	Cap. Tolerance	Rated Voltage	Case Size D	Case Size L

HX Series

◆ FREQUENCY COEFFICIENT OF RATED RIPPLE CURRENT

V	120Hz	1KHz	10KHZ	100KHz~
160~250	0.55	0.85	0.90	1.00
350~450	0.5	0.80	0.90	1.00

■ STANDARD RATINGS

WV uF	160		200		250	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
22	10 X 20	115	10 X 25	126	12.5 X 20	128
33	10 X 25	154	12.5 X 20	157	12.5 X 25	171
47	12.5 X 20	187	12.5 X 25	204	16 X 25	225
56	12.5 X 20	200	12.5 X 25	211	16 X 25	256
68	12.5 X 25	245	12.5 X 35	250	16 X 32	292
82	12.5 82 X 35	305	12.5 X 35	308	16 X 35	318
100	16 X 25	330	16 X 25	329		
150	16 X 32	434	16 X 32	412		

WV uF	350		400		450	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
4.7	10 X 20	53	10 X 20	53	10 X 25	58
6.8	10 X 20	66	10 X 20	66	10 X 25	70
10	10 X 25	85	10 X 25	86	12.5 X 20	89
22	12.5 X 25	139	12.5 X 25	142	12.5 X 32	154
33	16 X 25	189	16 X 25	189	16 X 32	203
47	16 X 32	243	16 X 32	243	18 X 32	266
68	16 X 36	285	16 X 36	285	18 X 36	305
100	18 X 36	485	18 X 36	485		

R.C. : Rated ripple current (mA rms) at 125°C , 100kHz)