

HX Standard Series
New

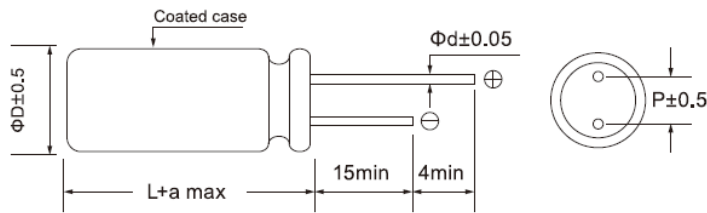
- Endurance: 105°C, 2000hrs
- Recommended Applications: standard
- Corresponding product to RoHS



■ Specifications

Item	Characteristics			
Category Temperature Range	-55 ~ +105°C			
Rated Voltage Range	16~35VDC			
Rated Capacitance Range	47~ 470 μ F			
Capacitance Tolerance	\pm 20 % (120Hz , 20°C)			
Surge Voltage	Rated voltage (V) x 1.15			
Leakage Current (20°C)	I \leq 0.01CV or 3 (μ A) whichever is greater (After rated voltage applied for 2 minutes) I : Leakage Current (μ A) C : Capacitance(μ F) V : Rated Voltage Range(VDC)			
Dissipation Factor (MAX) (tan δ) (120Hz ,20°C)	WV	16	25	35
	tan δ	0.16	0.14	0.12
Temperature characteristic Impedance ratio (MAX)	WV		16 ~ 35V	
	Z(100KHz)			
	Z-25°C / Z+20°C	\leq 1.15		
Z-55°C / Z+20°C	\leq 1.25			
Endurance	After applying rated voltage for 2000 hours at 105°C, the capacitor shall meet the following requirement °			
	Appearance	No significant damage		
	Capacitance Change	Within \pm 20% of the initial value		
	Dissipation Factor	Not more than 150% of the initial specified value		
	Equivalent Series Resistance	Not more than 150% of the initial specified value		
Leakage Current	Not more than the initial specified value			
Humidity Test	after subjected 90 to 95% RH for 1000 hours at 60°C , the capacitors shall meet the requirement as Endurance °			
Surge voltage test	After subjected to 1000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds,the capacitors shall meet the requirement as Endurance			
Failure rate(MAX)	1%per 1,000 hours(confidence level 60% at 105°C)			

■ Diagram of Dimensions



■ Marking : case with red printing



SIZE	ΦD x L	P	φ d	a
E08	6.3x8	2.5	0.6	1.0
G1B	8x11.5	3.5	0.6	1.0
H1C	10x12.5	5.0	0.6	1.0

■ Multiplier for Ripple Current

Frequency(HZ)	120 \leq F < 1K	1K \leq F < 10K	10K \leq F < 100K	100K \leq F \leq 500K
Coefficient	0.05	0.30	0.70	1.00

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■ Dimensions, Rated Ripple Current, Equivalent Series Resistance

Rated (Surge) Voltage(V)	Capacitance (μ F)	SIZE Φ D \times L(mm)	RIPPLE (mA/rms, 105°C 100KHz)	ESR (m Ω , 20°C 100KHz)	LC (μ A max/2min)
16 (18.4)	220	6.3X8	1600	45	35.2
	270	8X11.5	1800	40	43.2
	470	10X12.5	2000	30	75.2
25 (28.75)	100	6.3X8	1600	45	25
	220	8X11.5	1800	40	55
	330	10X12.5	2000	30	82.5
35 (40.25)	68	6.3X8	1600	45	23.8
	150	8X11.5	1800	40	52.5
	270	10X12.5	2000	30	94.5