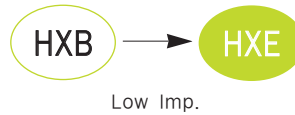


HXE Series

• 105°C 2,000Hrs assured.

- Non-solvent proof.
- Ultra Low Impedance.
- Height 7mm.
- For LED TV PSU, DVD Driver.
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics																	
Rated Voltage Range	6.3 ~ 35 V _{DC}																	
Operating Temperature Range	-40 ~ +105°C																	
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)																	
Leakage Current	I=0.01CV(μA) or 3μA, whichever is greater. Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V _{DC}) (at 20°C, 2 minutes)																	
Dissipation Factor(Tanδ)	<table><tr><td>Rated voltage(V_{DC})</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>Tanδ(Max.)</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td></tr></table> (at 20°C, 120Hz)						Rated voltage(V _{DC})	6.3	10	16	25	35	Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12
Rated voltage(V _{DC})	6.3	10	16	25	35													
Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12													
Temperature Characteristics (Max. Impedance ratio)	<table><tr><td>Rated voltage(V_{DC})</td><td>6.3</td><td>10</td><td>16~35</td></tr><tr><td>Z(-25°C)/Z(20°C)</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40°C)/Z(20°C)</td><td>6</td><td>4</td><td>3</td></tr></table> (at 120Hz)						Rated voltage(V _{DC})	6.3	10	16~35	Z(-25°C)/Z(20°C)	2	2	2	Z(-40°C)/Z(20°C)	6	4	3
Rated voltage(V _{DC})	6.3	10	16~35															
Z(-25°C)/Z(20°C)	2	2	2															
Z(-40°C)/Z(20°C)	6	4	3															
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 105°C. Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value																	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value																	
Others	Satisfied characteristics KS C IEC 60384-4																	

RATINGS OF HXE Series

Unit(mm)

Technical drawing of a capacitor showing dimensions and views:

- Side View:** Shows a cylindrical body with a sleeve. Dimensions include $\varnothing D'$ (outer diameter), L' (length), 15min. (minimum length of the sleeve), and 4min. (minimum length of the body). The sleeve is labeled "Sleeve".
- End View:** Shows the circular end face with two terminals. The diameter is $\varnothing d \pm 0.05$.
- Top View:** Shows the top face with two terminals. The diameter is $F \pm 0.5$.
- Bottom View:** Shows the bottom face with two terminals. The diameter is $F \pm 0.5$.
- Side View (Detail):** Shows a detail of the sleeve with a diameter of $\varnothing d \pm 0.05$.

Marking : DARK BROWN SLEEVE,
SILVER INK

$\varnothing D$	4	5	6.3	8
$\varnothing d$	0.45			
F	1.5	2.0	2.5	3.5
$\varnothing D'$	$\varnothing D + 0.5 \text{ max.}$			
L'	$L + 1.0 \text{ max.}$			

※ $\varnothing 8 \times 9L$, $\varnothing d = 0.60$

RATINGS OF HXE Series

WV (V)	Cap. (μF)	$\varnothing D \times L(\text{mm})$	IMP. (Ω max. / 100kHz)		Rated Ripple Current (mA rms/105°C, 100kHz)
			20°C	-10°C	
6.3	33	4 × 7	0.56	1.70	230
	47	5 × 7	0.26	0.86	350
	100	6.3 × 7	0.15	0.50	480
	330	8 × 7	0.10	0.35	800
	390	8 × 9	0.08	0.30	850
10	33	4 × 7	0.56	1.70	230
	47	5 × 7	0.26	0.86	350
	150	6.3 × 7	0.15	0.50	480
	220	8 × 7	0.10	0.35	800
	330	8 × 9	0.08	0.30	850
16	22	4 × 7	0.56	1.70	230
	33	5 × 7	0.26	0.86	350
	47	5 × 7	0.26	0.86	350
	100	6.3 × 7	0.15	0.50	480
	150	8 × 7	0.10	0.35	800
	220	8 × 9	0.08	0.30	850
25	10	4 × 7	0.56	1.70	230
	33	5 × 7	0.26	0.86	350
	47	6.3 × 7	0.15	0.50	480
	68	6.3 × 7	0.15	0.50	480
	100	8 × 7	0.10	0.35	800
	150	8 × 9	0.08	0.30	850
35	4.7	4 × 7	0.64	2.10	230
	10	5 × 7	0.33	1.10	350
	22	5 × 7	0.33	1.10	350
	33	6.3 × 7	0.15	0.50	480
	68	8 × 7	0.10	0.35	800
	100	8 × 9	0.08	0.30	850

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap. (μF) \ Freq. (Hz)	120	1k	10k	50k	100k
4.7 ~ 150	0.40	0.75	0.90	0.95	1.00
220 ~ 330	0.50	0.85	0.94	0.97	1.00