

HW Series Snap-in Type 105°C 15mm Height

Features

- ◆ Endurance 2000 hours 105°C with height 15mm
- ◆ ROHS compliant

HS Low Profile → HW



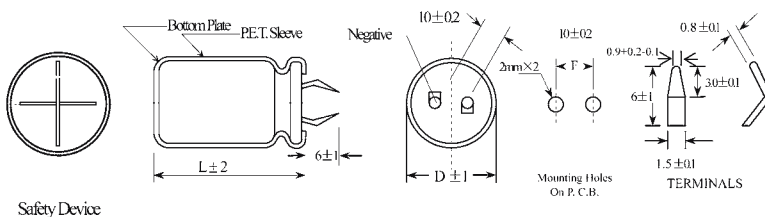
Specifications

Item	Performance Characteristics						
Operating Temperature Range	-25 to +105°C						
Capacitance Range	39 to 390µF						
Rated Voltage Range	160 to 400VDC						
Capacitance Tolerance	±20%(120Hz,+20°C)						
Leakage Current (+20°C,max.)	$I \leq 3 \sqrt{CV} (\mu A)$ (After 5 minute with rated working voltage applied.) I= Leakage Current(µA) C= Rated Capacitance V= Rated voltage(V)						
Dissipation Factor (tan δ) (+20°C, at 120Hz)	<table border="1"> <tr> <td>Cap(µF) / W.V.(V)</td> <td>160~250</td> <td>315~450</td> </tr> <tr> <td>D.F.</td> <td>20%</td> <td>20%</td> </tr> </table>	Cap(µF) / W.V.(V)	160~250	315~450	D.F.	20%	20%
	Cap(µF) / W.V.(V)	160~250	315~450				
D.F.	20%	20%					
Low Temperature Characteristics (120Hz)	Impedance ratio max						
	<table border="1"> <tr> <td>Rated voltage</td> <td>160~250</td> <td>315~450</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>8</td> </tr> </table>	Rated voltage	160~250	315~450	Z-25°C/Z+20°C	4	8
Rated voltage	160~250	315~450					
Z-25°C/Z+20°C	4	8					
Endurance	Test condition Duration time :2000Hrs Ambient temperature :+105°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change : ≤ ±20% of the initial measured value Dissipation factor : ≤ 200% of the initial specified value Leakage current : ≤ The initial specified value						
Shelf Life	Test condition Duration time :1000Hrs Ambient temperature :+105°C Applied voltage :None After test requirement at +20°C:Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.						

Multiplier for Ripple Current vs. Frequency

CAP (µF) \ Hz	50(60)	120	1K	10K	50K-100K
10<CAP≤100	0.8	1	1.36	1.48	1.53
100<CAP≤1000	0.8	1	1.25	1.35	1.38

Diagram of Dimensions:(unit:mm)



Safety Device

Case Size

φ DxL(mm)

WV (V) Cap(uF)	160		180		200		250		315		400	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
39											22x15	0.30
47											25x15	0.35
56									22x15	0.35	30x15	0.40
68									25x15	0.4	30x15	0.45
82									30x15	0.45	35x15	0.50
100					20x15	0.45	22x15	0.50	30x15	0.5	35x15	0.55
120			20x15	0.50	22x15	0.55	25x15	0.60	35x15	0.55		
150	20x15	0.55	22x15	0.60	25x15	0.65	30x15	0.70	35x15	0.6		
180	22x15	0.65	25x15	0.75	25x15	0.75	30x15	0.75				
					30x15	0.80						
220	25x15	0.80	30x15	0.85	30x15	0.90	35x15	0.90				
270	30x15	0.95	30x15	1.00	30x15	1.00	35x15	1.00				
330	30x15	1.00	35x15	1.10	35x15	1.10						
390	35x15	1.20	35x15	1.20								

Ripple Current(A rms) at 105°C /120Hz