

# HG Series 105°C Over Voltage Resistant Design (耐过压)

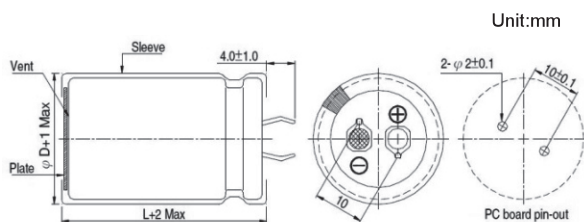
- Doesn't spark with DC over voltage
- Long Life, 2000 hours at 105°C ( $U_R, I_R$  applied)
- Optimized designs available on request
- RoHS Compliant



## SPECIFICATIONS AND CHARACTERISTICS IN BRIEF

Item	Performance Characteristics				
Standard	IEC 60384-4				
Temperature Range	-25°C to +105°C (Operating)		-55°C to +110°C (Storage)		
Rated Working Voltage Range $U_R$	200V to 450V				
Surge Voltage $U_s$	1.10 x $U_R$				
Nominal Capacitance Range	56µF to 1200µF				
Capacitance Tolerance	±20%(120HZ, +20°C)				
Leakage Current $I_L$	= 0.02 x $C_R$ x $U_R$ (µA) or 6mA whichever is the smaller. Note, $C_R$ is in µF.		Test Condition: $U_R$ , 5mins., 20°C		
DC overvoltage test conditions	Doesn't spark	$U_R$	≤ 250 V	> 400 V	
		Test U/Current Limit	1.8 $U_R$ VDC/2A	1.5 $U_R$ VDC/2A	
Characteristics at low Temperature	Max. impedance ratio at 120 Hz	$U_R$	≤ 400 V	> 400 V	
		Z -25 °C / Z 20 °C	28	30	
tan δ	Working Voltage(V)	200	250	400	450
	tan δ(max) (120HZ, +20°C)	0.16	0.16	0.20	0.20
Operational Life Time +105°C, $U_R$ , $I_R$	Can Diameter	25,30	2000 hrs	End of Life Requirement: $\Delta C/C$ ≤ ±20% tan δ ≤ 2 x initial tan δ value $I_L$ ≤ initial specified limit	
		35,40	2000 hrs		
+105°C, $U_R$	Can Diameter	25,30	5000 hrs		
		35,40	6000 hrs		
Shelf Life +105°C	After leaving capacitors under no load at 105°C for 1000 hours, Capacitors shall meet specified value for load life characteristics listed above.				
Others	If the capacitors are stored more than 1 year, the Leakage Current may increase. Please apply voltage through about 1 kΩ resistor, if necessary.				

## SPECIFICATIONS



## Mounting

These capacitors are designed to be mounted by their terminations alone, and may be used in any position.

## RIPPLE CURRENT MULTIPLIER

Freq(HZ)	50	120	1K	10K	100K
Coefficient	0.80	1.00	1.20	1.35	1.40

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STANDARD RATINGS								
Voltage (V)	200		250		400		450	
Cap (μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
56					22×25	0.45		
68					22×25	0.51		
82					22×30	0.58		
100					22×30	0.66		
120			22×25	0.68	22×35	0.76		
150			22×25	0.72	22×40	0.85		
180	22×25	0.82	22×30	0.87	22×45	0.94	30×35	1.0
220	22×25	0.90	22×30	1.00	25×40	1.24	30×40	1.20
270	22×30	1.02	22×35	1.14	30×40	1.30		
330	22×35	1.20	22×40	1.28	30×45	1.47	35×40	1.41
390	25×30	1.35	25×40	1.46			35×45	1.48
470	25×35	1.45	25×45	1.64	35×45	1.62		
560	25×35	1.60	30×40	1.87				
680	30×35	1.81	30×45	2.12				
820	30×40	2.11	30×50	2.42				
1000	30×45	2.40						
1200	30×50	2.69						

Maximum Allowable Ripple Current (A rms) at 105°C 120HZ

Case Size ΦD×L(mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.