

# MHX Series

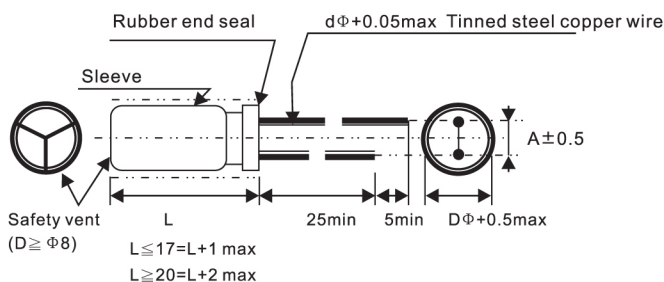
- 105°C, 1000~2000 hours standard series (紋波疊加)



## • SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40 to +105°C							
Rated Voltage Range	160v to 500Vdc							
Capacitance Tolerance	± 20% (M) (at 20°C, 120Hz)							
Leakage Current	I=0.01CV + 3 μA, whichever is greater. Where, I :Max. Leakage current (μA). C : Nominal capacitance (μF) . V :Rated voltage(V) (at 20°C, after 2 minutes)							
Dissipation Factor (tan δ)	Rated voltage (Vdc)	160V	200V	250V	350V	400V	450V	500V
	tan δ (Max.)	0.15	0.15	0.15	0.20	0.20	0.20	0.20
Low Temperature Characteristics	Impedance ration max at 120Hz							
	Working voltage	160v	200v	250v	350v	400v	450v	500v
	Z-25°C/ Z+20°C	3	6	8	12	14	16	16
Load. Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for the specified at 105°C							
	Capacitance change	≤ ±20% of the initial value					φD	load life
	DF (tan δ)	≤ 200 % of the initial specified value					6.3~10 φ	1000
	Leakage current	≤ The initial specified value					13 φ~	2000
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.							
	Capacitance change	≤ ±20% of the initial value						
	DF (tan δ)	≤ 200 % of the initial specified value						
Ripple Current Multiplier	Temperature coefficient							
	Temperature(°C)	~55	60	70	85	105		
	Factor	2.23	2.17	2.0	1.75	1		
	Frequency coefficient							
	cap \ freq	60	120	1k	10k	100k		
	~100	0.70	1.00	1.40	1.50	1.50		
100up	0.75	1.00	1.30	1.35	1.35			

## • Diagram: (Unit: mm)



Body Dia ΦD	6	8	10	13		16	18	22
				L ≤ 21	L ≥ 25			
Lead Dia Φd	0.5	0.6	0.6	0.6	0.8	0.8	0.8	0.8
Lead Space A	2.5	3.5	5		7.5		7.5/10	10

◆ MHX series 105°C 中高壓標準品

● STANDARD RATING

V <sub>dc</sub> μF	160		200		250		350		400		450		500	
	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple	D*L	Ripple
0.47	6.3*11	13	6.3*11	14	6.3*11	11	6.3*11	16	6.3*11	15	8*11	18		
1	6.3*11	20	6.3*11	21	6.3*11 8*12	24 26	8*11	27	8*11	21	8*11	27		
2.2	6.3*11	28	6.3*11	30	8*12	41	8*12	41	6.3*11 8*12	35 39	8*12	39		
3.3	6.3*11 8*12	35 42	8*12	45	8*12	50	8*12	47	6.3*11 8*12	42 47	10*13	55		
4.7	6.3*11 8*12	46 50	8*12	53	8*12	60	8*12	55	6.3*11 8*12	50 56	10*17	75		
10	8*12	73	10*12 10*17	94 100	10*17	115	10*17	105	10*17	110	10*20	125	13*18	140
22	10*17	135	10*17 10*20	168	10*25	215	13*21	210	13*21	225	13*25	245	13*25	300
33	10*20	190	13*20	240	13*25	280	13*25	290	13*20 13*25	285 305	16*25	325	18*18	340
47	13*20	265	13*20	250	13*25	290	16*20	350	16*25 18*20	350	16*30	420	18*25	450
68	13*25	360	13*25	370	16*25	420	16*32	436	16*32 18*25	450	18*32	480	18*32	520
100	13*32 16*25	425	16*25	485	16*32	530	18*36	505	18*36	515	18*40	590	18*40	590
120	18*30	490	18*30 18*36	540	16*32	600	18*36	630	18*36	645	18*40	650		
150	16*32	610	18*36	660	18*32	710	22*30	725	22*30	740				
180	18*36	720	18*30 18*36	782	18*36	810	22*40	835						
220	18*36	750	18*36 22*25	835 810	18*40	910								
260	18*36	790	18*36	860										
330	18*36	865	18*36	900										
390	18*36	920	18*36 18*40	930 970										
470	18*40	1010	18*40 22*40	1050 1150										

Maximum Ripple Current: Unit mA.rms, 105°C 120Hz. Size: D φ x L (mm)

Chip Type SMD
Miniature Type
General Purpose
High Frequency Low Impedance
High Voltage High Reliability
Non-polar Type
Large Size Snap-in
Large Size Screw
X Metallized Polypropylene Film Capacitors