

MXH SERIES

UPGRADE

105°C Miniaturized

*Load Life : 105°C 2000 hours.

RoHS
compliance



◆SPECIFICATIONS

Items	Characteristics											
Category Temperature Range	-25~+105℃											
Rated Voltage Range	400~550Vdc											
Capacitance Tolerance	±20% (20℃,120Hz)											
Leakage Current(MAX)	I=3√CV (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)											
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (Vdc)</td><td>400~450</td><td>475~550</td></tr><tr><td>tanδ</td><td>0.20</td><td>0.25</td></tr></table>	Rated Voltage (Vdc)	400~450	475~550	tanδ	0.20	0.25	(20℃,120Hz)				
Rated Voltage (Vdc)	400~450	475~550										
tanδ	0.20	0.25										
Endurance	After applying rated voltage with rated ripple current for 2000 hours at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="2">Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="2">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="2">Not more than the specified value.</td></tr></table>			Capacitance Change	Within ±20% of the initial value.		Dissipation Factor	Not more than 200% of the specified value.		Leakage Current	Not more than the specified value.	
Capacitance Change	Within ±20% of the initial value.											
Dissipation Factor	Not more than 200% of the specified value.											
Leakage Current	Not more than the specified value.											
Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>400~450</td><td>475~550</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>8</td><td>12</td></tr></table>	Rated Voltage (Vdc)	400~450	475~550	Z(-25℃)/Z(20℃)	8	12	(120Hz)				
Rated Voltage (Vdc)	400~450	475~550										
Z(-25℃)/Z(20℃)	8	12										

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120(100)	300	500	1k	10k≤
Coefficient	0.80	1.00	1.15	1.20	1.25	1.40

◆OPTION

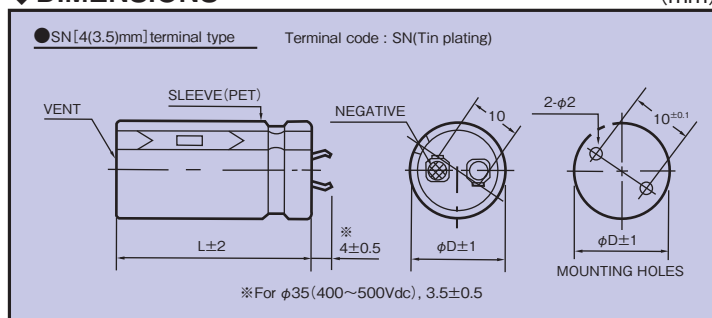
	Code
PET Sleeve without plate	EFC

◆PART NUMBER

□□□	MXH	□□□□□	M	□□□	SN	D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Terminal Code	Case Size

◆DIMENSIONS

(mm)



◆STANDARD SIZE

Vdc Cap(μF) φD	400								420							
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
100									22×25	0.85						
120	22×25	0.92							22×30	0.98						
150	22×30	1.08							22×30	1.06	25×25	1.04				
180	22×30	1.15	25×25	1.12					22×35	1.20	25×30	1.20				
220	22×35	1.32	25×30	1.30					22×40	1.37	25×30	1.28	30×25	1.24		
270	22×40	1.50	25×35	1.49	30×25	1.33			22×50	1.62	25×35	1.47	30×30	1.44	35×25	1.32
330	22×50	1.76	25×40	1.68	30×30	1.55	35×25	1.44	22×60	1.87	25×45	1.75	30×35	1.65	35×30	1.56
390	22×55	1.94	25×45	1.86	30×35	1.75	35×30	1.63			25×50	1.93	30×40	1.84	35×30	1.62
470			25×50	2.07	30×40	1.97	35×30	1.68			25×60	2.21	30×45	2.05	35×35	1.86
560			25×60	2.37	30×45	2.18	35×35	1.92					30×50	2.25	35×40	2.10
680					30×50	2.41	35×40	2.15					30×60	2.59	35×45	2.29
820					30×60	2.76	35×45	2.37							35×50	2.50
1000							35×55	2.78							35×60	2.88
1200							35×60	2.95								

Vdc Cap(μF) φD	450								475							
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
68									22×25	0.67						
82									22×30	0.77						
100	22×25	0.85							22×35	0.88	25×25	0.83				
120	22×30	0.98	25×25	0.96					22×40	0.99	25×30	0.96				
150	22×35	1.13	25×30	1.12					22×45	1.14	25×35	1.10	30×25	1.04		
180	22×40	1.28	25×30	1.20	30×25	1.18			22×50	1.27	25×40	1.24	30×30	1.19	35×25	1.15
220	22×45	1.44	25×35	1.37	30×30	1.36			22×60	1.47	25×45	1.40	30×35	1.36	35×30	1.33
270	22×50	1.61	25×40	1.56	30×30	1.44	35×25	1.33			25×55	1.62	30×40	1.54	35×35	1.52
330	22×60	1.86	25×50	1.82	30×35	1.64	35×30	1.54					30×45	1.73	35×40	1.71
390			25×55	2.01	30×40	1.83	35×35	1.76					30×55	1.98	35×40	1.79
470			25×60	2.21	30×45	2.05	35×40	1.97					30×60	2.18	35×50	2.09
560					30×50	2.26	35×45	2.18							35×55	2.29
680					30×60	2.59	35×50	2.38								
820							35×60	2.74								

Vdc Cap(μF) φD	500								550			
	φ22	φ25	φ30	φ35	φ30	φ35	φ30	φ35	φ30	φ35	φ30	φ35
56	22×25	0.63										
68	22×30	0.72										
82	22×30	0.80	25×25	0.78								
100	22×35	0.92	25×30	0.90					30×25	0.8		
120	22×40	1.03	25×35	1.02	30×25	0.97			30×30	0.93	35×25	0.92
150	22×50	1.20	25×40	1.17	30×30	1.13	35×25	1.09	30×35	1.07	35×30	1.05
180	22×60	1.37	25×45	1.31	30×35	1.28	35×30	1.26	30×40	1.21	35×30	1.14
220			25×50	1.46	30×40	1.45	35×35	1.44	30×45	1.36	35×35	1.3
270			25×60	1.70	30×45	1.63	35×35	1.52	30×55	1.57	35×40	1.47
330					30×50	1.81	35×40	1.71			35×50	1.72
390					30×60	2.06	35×50	1.99			35×55	1.88
470							35×55	2.19				

↑
Ripple Current (A r.m.s./120Hz, 105°C)
Case Size φD×L(mm)