

MXG SERIES

105°C Miniaturized, Snap-in Terminal Type

◆FEATURES

- Load Life : 105°C 3000 hours.(50~100WV:2000 hours)
- Smaller size than MXC series.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics																							
Category Temperature Range	-40~+105℃				-25~+105℃																			
Rated Voltage Range	50~100V.DC				160~500V.DC																			
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(V)																							
(tanδ) Dissipation Factor(MAX)	<table><tr><td>Rated Voltage (V)</td><td>50</td><td>63</td><td>80~100</td><td>160~450</td><td>500</td></tr><tr><td>tanδ</td><td>0.35</td><td>0.30</td><td>0.25</td><td>0.20</td><td>0.25</td></tr></table> (20℃,120Hz)						Rated Voltage (V)	50	63	80~100	160~450	500	tanδ	0.35	0.30	0.25	0.20	0.25						
Rated Voltage (V)	50	63	80~100	160~450	500																			
tanδ	0.35	0.30	0.25	0.20	0.25																			
Endurance	After applying rated voltage with rated ripple current for 3000 hours (50~100W:2000 hours) at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="5">Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="5">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="5">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.				
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Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (V)</td><td>50~100</td><td>160~250</td><td>400~450</td><td>500</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>3</td><td>4</td><td>8</td><td>12</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>12</td><td>—</td><td>—</td><td>—</td></tr></table> (120Hz)						Rated Voltage (V)	50~100	160~250	400~450	500	Z(-25℃)/Z(20℃)	3	4	8	12	Z(-40℃)/Z(20℃)	12	—	—	—			
Rated Voltage (V)	50~100	160~250	400~450	500																				
Z(-25℃)/Z(20℃)	3	4	8	12																				
Z(-40℃)/Z(20℃)	12	—	—	—																				

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	50~100WV	0.90	1.00	1.05	1.10	1.15
	160~250WV	0.80	1.00	1.20	1.30	1.50
	400~500WV	0.80	1.00	1.20	1.25	1.40

◆PART NUMBER

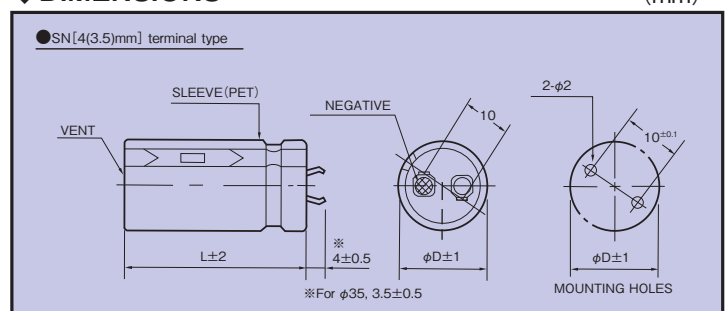
MXG M SN DXL
 Rated Voltage Series Capacitance Capacitance Tolerance Option Terminal Code Case Size

◆OPTION

	Code
PET Sleeve without plate	EFC

◆DIMENSIONS

(mm)



◆STANDARD SIZE

Cap (μ F)	WV ϕ D	50					63				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
1500							20×25: 1.47				
1800							20×30: 1.58				
2200							20×35: 1.82				
2700	20×25: 1.60							22×30: 2.11	25×25: 2.11		
3300	20×30: 1.73	22×25: 1.73						22×35: 2.33			
3900	20×35: 1.97	22×30: 1.97						22×40: 2.55	25×30: 2.55	30×25: 2.55	
4700	20×40: 2.22	22×35: 2.22	25×25: 2.22					22×45: 2.97	25×35: 2.97		
5600	20×45: 2.43	22×40: 2.43	25×30: 2.43								
6800		22×45: 2.75	25×35: 2.75	30×25: 2.75					25×40: 3.22	30×30: 3.22	35×25: 3.22
8200		22×50: 3.30	25×40: 3.30	30×30: 3.30	35×25: 3.30				25×45: 3.65	30×35: 3.65	35×30: 3.65
10000			25×45: 3.60	30×35: 3.60						30×40: 4.04	35×35: 4.04
12000			25×50: 4.05	30×40: 4.05	35×30: 4.05					30×45: 4.48	35×40: 4.48
15000				30×45: 4.56	35×35: 4.56						35×45: 4.75
				30×50: 4.77	35×40: 4.77						35×50: 5.25

Cap (μ F)	WV ϕ D	80					100				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
680							20×25: 1.15				
820							20×30: 1.32	22×25: 1.32			
1000							20×35: 1.47				
1200	20×25: 1.24						20×30: 1.69	22×30: 1.69	25×25: 1.69		
1500	20×30: 1.44	22×25: 1.44						22×35: 1.98	25×30: 1.98		
1800	20×35: 1.59	22×30: 1.79	25×25: 1.79					22×40: 2.23		30×25: 2.23	
2200	20×40: 2.03	22×35: 2.03							25×40: 2.55	30×30: 2.55	35×25: 2.55
2700		22×40: 2.39			30×25: 2.39				25×45: 2.89	30×35: 2.89	
3300		22×50: 2.64			30×30: 2.64	35×25: 2.64			25×50: 3.30	30×40: 3.30	
3900				25×45: 2.97	30×30: 2.97					30×45: 3.67	35×35: 3.67
4700				25×50: 3.38	30×35: 3.38	35×30: 3.38				30×50: 3.80	35×40: 3.80
5600					30×40: 3.80	35×35: 3.80					35×45: 4.05
6800					30×50: 4.10	35×40: 4.10					
8200						35×45: 4.30					

Cap (μ F)	WV ϕ D	160					180				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
330	20×25: 1.17						20×25: 1.20				
390	20×30: 1.28						20×30: 1.28	22×25: 1.28			
470	20×35: 1.40	22×25: 1.40					20×35: 1.38	22×30: 1.38			
560	20×40: 1.50	22×30: 1.50					20×40: 1.50	22×35: 1.50	25×25: 1.50		
680	20×45: 1.70	22×35: 1.70	25×25: 1.70				20×45: 1.70	22×40: 1.70	25×30: 1.70		
820		22×40: 2.00	25×30: 2.00					22×45: 2.00	25×35: 2.00	30×25: 2.00	
1000			22×45: 2.20	25×35: 2.20	30×25: 2.20				25×40: 2.20	30×30: 2.20	35×25: 2.20
1200				25×40: 2.30	30×30: 2.30	35×25: 2.30			25×45: 2.30	30×35: 2.30	35×30: 2.30
1500				25×45: 2.50	30×35: 2.50	35×30: 2.50			25×50: 2.50	30×40: 2.50	35×35: 2.50
1800					30×40: 2.70	35×35: 2.70				30×45: 2.70	35×40: 2.70
2200					30×45: 2.90	35×40: 2.90				30×50: 2.90	35×45: 2.90
2700						35×45: 3.10					35×50: 3.10

Cap (μ F)	WV ϕ D	200					220				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
220							20×25: 0.98				
270	20×25: 0.99						20×30: 1.08	22×25: 1.08			
330	20×30: 1.20	22×25: 1.20					20×35: 1.26	22×30: 1.26			
390	20×35: 1.34	22×30: 1.34					20×40: 1.48	22×35: 1.48	25×25: 1.48		
470	20×40: 1.48	22×35: 1.48	25×25: 1.48				20×45: 1.61	22×40: 1.61	25×30: 1.61	30×25: 1.61	
560	20×45: 1.60	22×40: 1.60	25×30: 1.60					22×45: 1.78	25×35: 1.78	30×30: 1.78	
680		22×45: 1.75	25×35: 1.75	30×25: 1.75				22×50: 1.93	25×40: 1.93	30×35: 1.93	35×25: 1.93
820			25×40: 2.04	30×30: 2.04					25×45: 2.33	30×40: 2.33	35×30: 2.33
1000				25×45: 2.30	30×35: 2.30					30×45: 2.50	35×35: 2.50
1200				25×50: 2.65	30×40: 2.65	35×30: 2.65				30×50: 2.76	35×40: 2.76
1500					30×45: 2.80	35×35: 2.80					35×45: 3.11
1800					30×50: 3.08	35×40: 3.08					
2200						35×45: 3.48					

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

◆ STANDARD SIZE

Cap (μ F)	WV ϕ D	250					400				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
68							20×25;0.49				
82							20×25;0.57	22×25;0.57			
100							20×30;0.70	22×25;0.70			
120							20×35;0.75	22×30;0.75	25×25;0.75		
150							20×40;0.88	22×35;0.88	25×25;0.88		
180								22×35;0.95	25×30;0.95	30×25;0.95	
220		20×25;1.00						22×45;1.10	25×35;1.10	30×25;1.10	
270		20×30;1.10	22×25;1.10					22×50;1.22	25×40;1.22	30×30;1.22	35×25;1.22
330		20×35;1.20	22×30;1.20	25×25;1.20					25×45;1.44	30×35;1.44	35×30;1.44
390		20×40;1.30	22×35;1.30	25×25;1.30					25×50;1.55	30×40;1.55	35×30;1.55
470		20×45;1.40	22×40;1.40	25×30;1.40	30×25;1.40					30×45;1.68	35×35;1.66
560			22×45;1.50	25×35;1.50	30×25;1.50					30×50;1.90	35×40;1.90
680			22×50;1.70	25×40;1.70	30×30;1.70	35×25;1.70					35×45;2.12
820				25×45;2.00	30×35;2.00	35×30;2.00					
1000					30×40;2.20	35×35;2.20					
1200					30×45;2.30	35×35;2.30					
1500						35×45;2.50					
1800						35×50;2.70					

Cap (μ F)	WV ϕ D	420					450				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
56							20×25;0.44				
68		20×25;0.50					20×25;0.50	22×25;0.50			
82		20×25;0.64	22×25;0.64				20×30;0.64	22×25;0.64			
100		20×30;0.66	22×25;0.66	25×25;0.66			20×35;0.69	22×30;0.69	25×25;0.69		
120		20×35;0.81	22×30;0.81	25×25;0.81			20×35;0.72	22×30;0.72	25×25;0.72		
150		20×40;0.84	22×35;0.84	25×30;0.84	30×25;0.84		20×45;0.79	22×35;0.79	25×30;0.79	30×25;0.79	
180		20×45;0.91	22×40;0.91	25×30;0.91	30×25;0.91			22×40;0.87	25×35;0.87	30×25;0.87	
220			22×45;1.05	25×35;1.05	30×30;1.05	35×25;1.05		22×50;1.05	25×40;1.05	30×30;1.05	35×25;1.05
270				25×40;1.25	30×30;1.25	35×25;1.25			25×45;1.23	30×35;1.23	35×30;1.23
330				25×50;1.42	30×35;1.42	35×30;1.42			25×50;1.38	30×40;1.38	35×30;1.38
390					30×40;1.61	35×35;1.61				30×45;1.61	35×35;1.61
470					30×45;1.86	35×40;1.86				30×50;1.78	35×40;1.78
560						35×45;2.10					35×45;1.99
680						35×50;2.20					

Cap (μ F)	WV ϕ D	500				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
39		20×25;0.39				
47		20×30;0.46	22×25;0.44			
56		20×35;0.52	22×30;0.51			
68		20×40;0.60	22×30;0.56	25×25;0.55		
82		20×45;0.68	22×35;0.68	25×30;0.64	30×25;0.63	
100			22×40;0.77	25×35;0.74	30×25;0.69	
120			22×50;0.87	25×35;0.81	30×30;0.81	35×25;0.83
150				25×45;0.97	30×35;0.96	35×30;0.98
180				25×50;1.10	30×40;1.07	35×30;1.06
220					30×45;1.22	35×40;1.31
270						35×40;1.43
330						35×45;1.63
390						35×55;1.89
470						35×60;2.11

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