

MXG SERIES

UPGRADE

105°C Miniaturized, Snap-in Terminal Type

◆FEATURES

- Load Life : 105°C 3000 hours.(50~100WV:2000hours)
- 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=Rated 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																
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	—	—	—																	
Endurance	After applying rated voltage with rated ripple current for 3000hrs(50~100W:2000hrs) at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>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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◆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

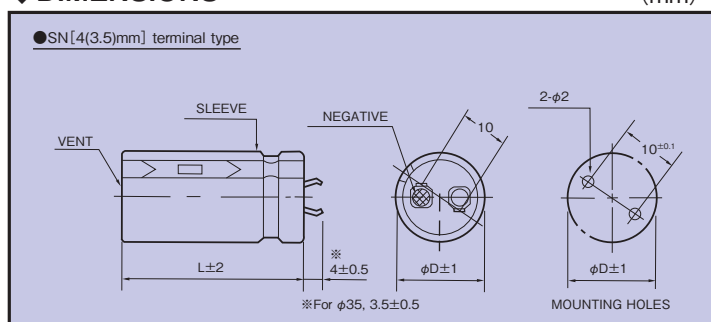
MXG SN D×L
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Terminal Code Case Size

◆副記号／Option

	Code
PET Sleeve without plate	EFC
PVC Sleeve without plate	OOE
PVC Sleeve with plate	Blank

◆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		20×25: 1.60					20×35: 1.82				
2700		20×30: 1.73	22×25: 1.73					22×30: 2.11	25×25: 2.11		
3300		20×35: 1.97	22×30: 1.97					22×35: 2.33			
3900		20×40: 2.22	22×35: 2.22	25×25: 2.22				22×40: 2.55	25×30: 2.55	30×25: 2.55	
4700		20×45: 2.43	22×40: 2.43	25×30: 2.43				22×45: 2.97	25×35: 2.97		
5600			22×45: 2.75	25×35: 2.75	30×25: 2.75				25×40: 3.22	30×30: 3.22	35×25: 3.22
6800			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
8200				25×45: 3.60	30×35: 3.60					30×40: 4.04	35×35: 4.04
10000				25×50: 4.05	30×40: 4.05	35×30: 4.05				30×45: 4.48	35×40: 4.48
12000					30×45: 4.56	35×35: 4.56					35×45: 4.75
15000					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		20×25: 1.24					20×30: 1.47				
1200		20×30: 1.44	22×25: 1.44				20×35: 1.69	22×30: 1.69	25×25: 1.69		
1500		20×30: 1.59						22×35: 1.98	25×30: 1.98		
1800		20×35: 1.79	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		20×25: 1.28					20×30: 1.28	22×25: 1.28			
470		20×30: 1.40	22×25: 1.40				20×35: 1.38	22×30: 1.38			
560		20×35: 1.50	22×30: 1.50				20×40: 1.50	22×30: 1.50	25×25: 1.50		
680		20×40: 1.70	22×30: 1.70	25×25: 1.70			20×45: 1.70	22×35: 1.70	25×30: 1.70		
820			22×35: 2.00	25×30: 2.00				22×40: 2.00	25×35: 2.00	30×25: 2.00	
1000			22×40: 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	35×30: 2.50
1800					30×40: 2.70	35×35: 2.70				30×45: 2.70	35×35: 2.70
2200					30×45: 2.90	35×40: 2.90				30×50: 2.90	35×40: 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				20×30: 1.26	22×25: 1.26			
390		20×30: 1.34	22×25: 1.34				20×35: 1.34	22×30: 1.34	25×25: 1.34		
470		20×35: 1.48	22×30: 1.48	25×25: 1.48			20×40: 1.48	22×35: 1.48	25×25: 1.48		
560		20×40: 1.60	22×35: 1.60	25×25: 1.60			20×45: 1.61	22×40: 1.61	25×30: 1.61	30×25: 1.61	
680			22×40: 1.75	25×30: 1.75	30×25: 1.75			22×45: 1.78	25×35: 1.78	30×25: 1.78	
820			22×45: 2.04	25×35: 2.04	30×25: 2.04			22×50: 1.93	25×40: 1.93	30×30: 1.93	35×25: 1.93
1000				25×45: 2.30	30×30: 2.30				25×50: 2.33	30×35: 2.33	35×30: 2.33
1200				25×50: 2.65	30×35: 2.65	35×30: 2.65				30×40: 2.50	35×35: 2.50
1500					30×45: 2.80	35×35: 2.80				30×50: 2.76	35×40: 2.76
1800					30×50: 3.08	35×40: 3.08					35×45: 3.11
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;0.78	
150			25×45;0.97	30×35;0.96	35×30;0.92	
180			25×50;1.10	30×40;1.07	35×30;1.00	
220				30×45;1.22	35×40;1.21	
270					35×40;1.32	
330					35×45;1.50	
390					35×55;1.73	
470					35×60;1.92	

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