

WAS

寿命：螺丝端子型85℃ 2,000小时 标准型：最高电压：600V

Load Life: Screw Terminal Type 85℃ 2,000hours

Standard Type Maximum Voltage 600V

规格表 SPECIFICATIONS

项目 Item	性能 Performance	
工作温度范围 Category Temperature Range	-25 ~ 85℃(160~600V) -40 ~ 85℃(50~100V)	
额定电压范围 Rated Voltage Range	50 ~ 600V.DC	
静电容量允许偏差 Electrostatic Capacitance Tolerance	± 20% (20℃, 120Hz)	
漏电流 Leakage Current	I ≤ 0.02CV or 5mA (5分钟值) (5minutes)	
	I=漏电流 V=额定电压	Leakage Current (μA) C=静电容量 Rated Voltage (V) Electrostatic Capacitance (μF)
损耗角正切值 Dissipation Factor	尺寸标准一览表 The value in the size table	
温度特性 / 阻抗比 Temperature Stability / Impedance Ratio	静电容量变化率 Electrostatic Capacitance Change (120Hz) $C(-25^{\circ}\text{C})/C(+20^{\circ}\text{C}) \geq 0.7$	
耐久性 Endurance	在85℃的环境中，在不超过额定电压的范围内重叠印加规定的额定纹波电流2,000小时后应符合下列要求。 After 2,000 hour life test at 85℃ with rated voltage and ripple current,the capacitors shall meet the following requirements .	
	静电容量变化率 Electrostatic Capacitance Change	初始值的 ± 20% ± 20% of the initial value
	损耗角正切值 Dissipation Factor	初始值的200% 200% of the initial value
	漏电流 Leakage Current	初始规格值 The initial specification value
高温无负荷特性 Shelf Life	经过1000个小时的保质寿命试验85℃,然后在20℃保存。经过预处理后 (JIS C 5102规范4.4), 电容器应符合下列要求。 After 1000 hour shelf life test at 85℃,then stored at 20℃.And after pre-treatment (JIS C 5102 4.4),the capacitors shall meet the following requirements.	
	静电容量变化率 Electrostatic Capacitance Change	初始值的 ± 20% ± 20% of the initial value
	损耗角正切值 Dissipation Factor	初始值的200% 200% of the initial value
	漏电流 Leakage Current	初始规格值 The initial specification value

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寿命: 螺丝端子型 85°C 2,000小时 标准型: 最高电压: 600V
Load Life: Screw Terminal Type 85°C 2,000hours
Standard Type Maximum Voltage 600V

■ 纹波电流修正系数 / CORRECTION COEFFICIENT FOR RIPPLE CURRENT

1. 频率系数 Frequency Coefficient

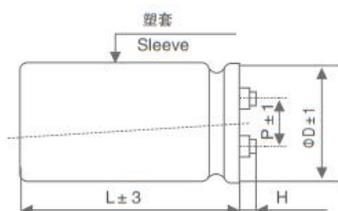
频率 Frequency	60 (50)	120	500	1K	≥10K
160~250V.DC	0.80	1.00	1.10	1.20	1.30
350~450V.DC	0.70	1.00	1.10	1.30	1.40

2. 周围温度系数 Temperature Coefficient

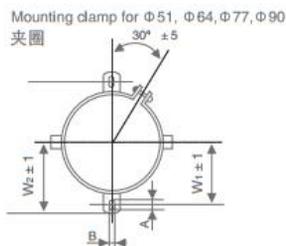
周围温度 (°C) Ambient Temperature	40	60	85
系数 Coefficient	1.8	1.6	1.0

■ 尺寸图 / DIMENSIONS

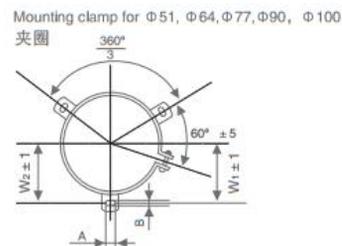
标准端子
Standard terminal type



ΦD	P
36	12.7
51	21.8
64	28.2
77	31.4
90	31.4
100	41.5

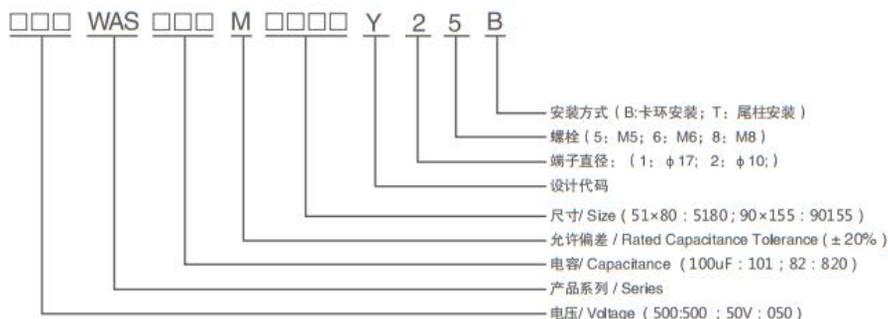


ΦD	A	B	W1	W2
51	7	5	34.5	40.0
64	7	5	40.0	46.0
77	7	5	46.8	53.0
90	7	5	54.0	60.3



ΦD	A	B	W1	W2
51	7	4.5	31.8	36.5
64	7	4.5	38.1	42.5
77	7	4.5	44.5	49.0
90	7	4.5	50.8	55.6
100	8	6	57.5	65.0

■ 产品代码规则 / PRODUCT CODE SYSTEM



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标准品一览表、额定纹波电流

TYPICAL DIMENSIONS, RATED RIPPLE CURRENT

V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L±3mm	纹波电流 arms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No	V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L±3mm	纹波电流 arms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No
50	22,000	36 × 100	6.0	0.30	050WAS223M36100Y25T	100	6,800	51 × 100	7.6	0.20	100WAS682M51100Y25B
	33,000	51 × 80	7.5	0.35	050WAS333M5180Y25B		8,200	51 × 115	8.2	0.20	100WAS822M51115Y25B
	47,000	51 × 100	8.5	0.40	050WAS473M51100Y25B		10,000	64 × 100	10.0	0.20	100WAS103M64100Y25B
	68,000	51 × 115	11.3	0.45	050WAS683M51115Y25B		15,000	77 × 100	12.9	0.20	100WAS153M77100Y25B
	100,000	64 × 115	14.2	0.50	050WAS104M64115Y25B		22,000	77 × 130	16.8	0.20	100WAS223M77130Y25B
	150,000	77 × 115	18.3	0.60	050WAS154M77115Y25B		22,000	51 × 100	7.3	0.30	100WAS223M51100Y25B
63	22,000	51 × 80	6.8	0.30	063WAS223M5180Y25B	33,000	64 × 100	9.4	0.35	100WAS333M64100Y25B	
	33,000	51 × 80	7.5	0.35	063WAS333M5180Y25B	47,000	64 × 115	12.3	0.35	100WAS473M64115Y25B	
	33,000	51 × 100	8.2	0.35	063WAS333M51100Y25B	68,000	77 × 115	15.6	0.35	100WAS683M77115Y25B	
	47,000	51 × 100	8.5	0.40	063WAS473M51100Y25B	160	1,200	36 × 50	2.0	0.15	160WAS122M3650Y25B
	47,000	64 × 100	10.3	0.40	063WAS473M64100Y25B		2,200	36 × 80	3.4	0.15	160WAS222M3680Y25B
	68,000	51 × 115	11.3	0.45	063WAS683M51115Y25B		2,700	51 × 80	3.7	0.15	160WAS272M5180Y25B
	68,000	64 × 115	13.4	0.40	063WAS683M64115Y25B		3,300	51 × 80	4.5	0.15	160WAS332M5180Y25B
	100,000	64 × 115	14.2	0.50	063WAS104M64115Y25B		4,700	51 × 80	5.6	0.20	160WAS472M5180Y25B
	100,000	77 × 115	17.2	0.45	063WAS104M77115Y25B		5,600	51 × 100	6.3	0.20	160WAS562M51100Y25B
	150,000	77 × 115	18.3	0.60	063WAS154M77115Y25B		6,800	51 × 100	7.5	0.20	160WAS682M51100Y25B
80	22,000	51 × 100	7.3	0.30	080WAS223M51100Y25B		8,200	51 × 115	8.1	0.20	160WAS822M51115Y25B
	33,000	64 × 100	9.4	0.35	080WAS333M64100Y25B		10,000	64 × 100	9.8	0.20	160WAS103M64100Y25B
	47,000	64 × 115	12.3	0.35	080WAS473M64115Y25B		12,000	64 × 115	10.8	0.20	160WAS123M64115Y25B
	68,000	77 × 115	15.6	0.35	080WAS683M77115Y25B	15,000	77 × 100	12.7	0.20	160WAS153M77100Y25B	
						18,000	77 × 115	14.0	0.20	160WAS183M77115Y25B	
						22,000	77 × 130	16.6	0.20	160WAS223M77130Y25B	
					33,000	90 × 130	18.9	0.25	160WAS333M90130Y25B		
					47,000	90 × 155	26.9	0.25	160WAS473M90155Y25B		

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标准品一览表、额定纹波电流

TYPICAL DIMENSIONS、RATED RIPPLE CURRENT

V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L±3mm	纹波电流 arms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No	V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L±3mm	纹波电流 arms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No
200	560	36×50	1.3	0.15	200WAS561M3650Y25T	250	560	36×50	1.3	0.15	250WAS561M3650Y25T
	820	36×50	1.6	0.15	200WAS821M3650Y25T		820	36×50	1.6	0.15	250WAS821M3650Y25T
	1,200	36×50	2.0	0.15	200WAS122M3650Y25T		1,200	36×80	2.3	0.15	250WAS122M3680Y25T
	1,200	36×80	2.3	0.15	200WAS122M3680Y25T		1,500	51×80	3.0	0.15	250WAS152M5180Y25B
	1,500	36×80	3.0	0.15	200WAS152M3680Y25T		1,800	36×80	2.8	0.15	250WAS182M3680Y25B
	1,800	36×80	2.8	0.15	200WAS182M3680Y25T		2,200	51×80	3.7	0.15	250WAS222M5180Y25B
	2,200	51×80	3.7	0.15	200WAS222M5180Y25B		2,700	51×80	4.0	0.15	250WAS272M5180Y25B
	2,700	51×80	4.0	0.15	200WAS272M5180Y25B		3,300	51×80	4.5	0.15	250WAS332M5180Y25B
	3,300	51×80	4.5	0.15	200WAS332M5180Y25B		3,300	51×100	5.1	0.15	250WAS332M51100Y25B
	3,900	51×115	5.9	0.15	200WAS392M51115Y25B		3,900	51×115	5.9	0.15	250WAS392M51115Y25B
	4,700	51×80	5.6	0.20	200WAS472M5180Y25B		4,700	51×100	7.1	0.20	250WAS472M51100Y25B
	4,700	51×100	7.1	0.20	200WAS472M51100Y25B		4,700	64×100	7.1	0.20	250WAS472M64100Y25B
	5,600	51×100	6.3	0.20	200WAS562M51100Y25B		5,600	51×115	8.2	0.20	250WAS562M51115Y25B
	5,600	51×115	8.2	0.20	200WAS562M51115Y25B		6,800	64×115	8.7	0.20	250WAS682M64115Y25B
	6,800	51×100	7.5	0.20	200WAS682M51100Y25B		8,200	64×100	10.0	0.20	250WAS822M64100Y25B
	6,800	64×100	7.5	0.20	200WAS682M64100Y25B		10,000	64×115	11.0	0.20	250WAS103M64115Y25B
	6,800	64×115	8.7	0.20	200WAS682M64115Y25B		10,000	77×115	11.0	0.20	250WAS103M77115Y25B
	8,200	51×115	8.1	0.20	200WAS822M51115Y25B		12,000	77×100	11.5	0.20	250WAS123M77100Y25B
	8,200	64×100	10.0	0.20	200WAS822M64100Y25B		15,000	77×130	12.8	0.20	250WAS153M77130Y25B
	10,000	64×100	9.8	0.20	200WAS103M64100Y25B		18,000	77×155	15.0	0.20	250WAS183M77155Y25B
	10,000	64×115	11.0	0.20	200WAS103M64115Y25B		22,000	90×130	17.0	0.20	250WAS223M90130Y25B
	10,000	77×115	11.0	0.20	200WAS103M77115Y25B		33,000	90×130	18.9	0.25	200WAS333M90130Y25B
	12,000	64×115	10.8	0.20	200WAS123M64115Y25B		33,000	90×155	18.3	0.25	200WAS333M90155Y25B
	12,000	77×100	11.5	0.20	200WAS123M77100Y25B		33,000	90×160	18.3	0.25	200WAS333M90160Y25B
	15,000	77×100	12.7	0.20	200WAS153M77100Y25B		36,000	90×155	20.1	0.25	200WAS363M90155Y25B
	15,000	77×115	12.8	0.20	200WAS153M77115Y25B		36,000	90×160	20.1	0.25	200WAS363M90160Y25B
18,000	77×115	14.0	0.20	200WAS183M77115Y25B							
18,000	77×130	15.0	0.20	200WAS183M77130Y25B							
22,000	77×130	16.6	0.20	200WAS223M77130Y25B							
22,000	90×130	17.0	0.20	200WAS223M90130Y25B							
33,000	90×130	18.9	0.25	200WAS333M90130Y25B							
33,000	90×155	18.3	0.25	200WAS333M90155Y25B							
33,000	90×160	18.3	0.25	200WAS333M90160Y25B							
36,000	90×155	20.1	0.25	200WAS363M90155Y25B							
36,000	90×160	20.1	0.25	200WAS363M90160Y25B							

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标准品一览表、额定纹波电流

TYPICAL DIMENSIONS, RATED RIPPLE CURRENT

V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L±3mm	纹波电流 arms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No	V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L±3mm	纹波电流 arms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No	
300	1,200	36×80	2.3	0.15	300WAS122M3680Y25T	400	2,200	51×100	6.3	0.20	400WAS222M51100Y25B	
	1,500	51×80	3.0	0.15	300WAS152M5180Y25B		2,200	51×115	6.3	0.20	400WAS222M51115Y25B	
	1,800	51×80	3.3	0.15	300WAS182M5180Y25B		2,200	51×130	7.2	0.20	400WAS222M51130Y25B	
	2,200	51×80	3.5	0.15	300WAS222M5180Y25B		2,200	64×100	6.5	0.20	400WAS222M64100Y25B	
	3,300	51×100	5.1	0.15	300WAS332M51100Y25B		2,200	64×115	6.5	0.20	400WAS222M64115Y25B	
	3,900	51×115	5.9	0.15	300WAS392M51115Y25B		2,700	64×100	6.5	0.20	400WAS272M64100Y25B	
	4,700	64×100	7.3	0.20	300WAS472M64100Y25B		3,300	64×115	9.5	0.20	400WAS332M64115Y25B	
	5,600	64×100	7.9	0.20	300WAS562M64100Y25B		3,300	64×130	9.7	0.20	400WAS332M64130Y25B	
	6,800	64×115	8.7	0.20	300WAS682M64115Y25B		3,300	77×100	8.8	0.20	400WAS332M77100Y25B	
	10,000	77×115	11.1	0.20	300WAS103M77115Y25B		3,900	64×115	10.3	0.20	400WAS392M64115Y25B	
	12,000	77×130	13.0	0.20	300WAS123M77130Y25B		3,900	64×130	10.8	0.20	400WAS392M64130Y25B	
	15,000	90×130	14.9	0.20	300WAS153M90130Y25B		3,900	77×100	10.6	0.20	400WAS392M77100Y25B	
	350	680	36×80	2.9	0.20		350WAS681M3680Y25T	3,900	77×120	10.8	0.20	400WAS392M77120Y25B
		1,000	51×80	4.2	0.20		350WAS102M5180Y25B	4,700	64×130	12.2	0.20	400WAS472M64130Y25B
		1,200	51×80	4.5	0.20		350WAS122M5180Y25B	4,700	77×100	11.7	0.20	400WAS472M77100Y25B
1,500		51×80	4.7	0.20	350WAS152M5180Y25B	4,700	77×115	12.0	0.20	400WAS472M77115Y25B		
2,200		51×100	6.3	0.20	350WAS222M51100Y25B	4,700	77×130	12.0	0.20	400WAS472M77130Y25B		
3,300		64×100	8.8	0.20	350WAS332M64100Y25B	5,600	77×115	12.6	0.20	400WAS562M77115Y25B		
3,900		64×115	10.3	0.20	350WAS392M64115Y25B	5,600	77×130	14.5	0.20	400WAS562M77130Y25B		
4,700		77×100	11.7	0.20	350WAS472M77100Y25B	5,600	77×155	15.4	0.20	400WAS562M77155Y25B		
5,600		77×115	12.6	0.20	350WAS562M77115Y25B	6,800	77×130	15.9	0.20	400WAS682M77130Y25B		
5,600		77×130	13.4	0.20	350WAS562M77130Y25B	6,800	77×145	15.9	0.20	400WAS682M77145Y25B		
6,800		77×130	15.9	0.20	350WAS682M77130Y25B	6,800	77×155	17.3	0.20	400WAS682M77155Y25B		
8,200		77×155	19.0	0.20	350WAS822M77155Y25B	8,200	77×155	19.0	0.20	400WAS822M77155Y25B		
10,000		90×130	21.5	0.20	350WAS103M90130Y25B	8,200	90×130	19.0	0.20	400WAS822M90130Y25B		
12,000		90×155	22.5	0.20	350WAS123M90155Y25B	8,200	90×155	19.4	0.20	400WAS822M90155Y25B		
400		390	36×50	1.9	0.20	400WAS391M3650Y25T	10000	77×170	20.8	0.20	400WAS103M77170Y25B	
	560	36×80	2.7	0.20	400WAS561M3680Y25T	10000	77×195	21.6	0.20	400WAS103M77195Y25B		
	680	36×80	2.9	0.20	400WAS681M3680Y25T							
	680	51×80	3.2	0.20	400WAS681M5180Y25B							
	820	51×80	3.4	0.20	400WAS821M5180Y25B							
	1,000	51×80	4.2	0.20	400WAS102M5180Y25B							
	1,200	51×80	4.2	0.20	400WAS122M5180Y25B							
	1,500	51×80	4.7	0.20	400WAS152M5180Y25B							
	1,500	51×100	5.3	0.20	400WAS152M51100Y25B							
	1,800	51×100	5.7	0.20	400WAS182M51100Y25B							

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标准品一览表、额定纹波电流

TYPICAL DIMENSIONS, RATED RIPPLE CURRENT

V.DC	Cpa (μF)	外壳尺寸 Case Size $\phi D \pm 1 \times L \pm 3\text{mm}$	纹波电流 arms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No	V.DC	Cpa (μF)	外壳尺寸 Case Size $\phi D \pm 1 \times L \pm 3\text{mm}$	纹波电流 arms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No
400	10,000	90 × 130	21.5	0.20	400WAS103M90130Y25B	450	2,700	64 × 100	7.9	0.20	450WAS272M64100Y25B
	10,000	90 × 155	20.5	0.20	400WAS103M90155Y25B		2,700	64 × 115	8.6	0.20	450WAS272M64115Y25B
	12,000	90 × 155	22.5	0.20	400WAS123M90155Y25B		3,300	64 × 115	9.5	0.20	450WAS332M64115Y25B
	12,000	90 × 175	23.9	0.20	400WAS123M90175Y25B		3,300	77 × 100	9.8	0.20	450WAS332M77100Y25B
	12,000	90 × 195	23.2	0.20	400WAS123M90195Y25B		3,300	77 × 115	10.2	0.20	450WAS332M77115Y25B
	15,000	90 × 195	27.4	0.20	400WAS153M90195Y25B		3,900	64 × 115	10.6	0.20	450WAS392M64115Y25B
450	330	36 × 50	1.7	0.20	450WAS331M3650Y25T	3,900	77 × 115	11.5	0.20	450WAS392M77115Y25B	
	470	36 × 80	2.4	0.20	450WAS471M3680Y25T	3,900	77 × 130	11.9	0.20	450WAS392M77130Y25B	
	560	36 × 80	2.7	0.20	450WAS561M3680Y25T	4,700	77 × 115	12.0	0.20	450WAS472M77115Y25B	
	680	51 × 80	3.1	0.20	450WAS681M5180Y25B	4,700	77 × 130	13.3	0.20	450WAS472M77130Y25B	
	820	51 × 80	3.4	0.20	450WAS821M5180Y25B	5,600	77 × 130	14.5	0.20	450WAS562M77130Y25B	
	1,000	51 × 80	3.9	0.20	450WAS102M5180Y25B	5,600	77 × 155	15.7	0.20	450WAS562M77155Y25B	
	1,200	51 × 80	4.2	0.20	450WAS122M5180Y25B	6,800	77 × 155	17.3	0.20	450WAS682M77155Y25B	
	1,200	51 × 100	4.7	0.20	450WAS122M51100Y25B	6,800	90 × 130	17.0	0.20	450WAS682M90130Y25B	
	1,500	51 × 100	5.3	0.20	450WAS152M51100Y25B	6,800	90 × 155	17.2	0.20	450WAS682M90155Y25B	
	1,500	51 × 115	5.6	0.20	450WAS152M51115Y25B	8,200	90 × 130	18.6	0.20	450WAS822M90130Y25B	
	1,800	51 × 100	5.7	0.20	450WAS182M51100Y25B	8,200	90 × 155	19.0	0.20	450WAS822M90155Y25B	
	1,800	51 × 130	6.5	0.20	450WAS182M51130Y25B	10,000	90 × 155	20.5	0.20	450WAS103M90155Y25B	
	2,200	51 × 130	7.2	0.20	450WAS222M51130Y25B	10,000	90 × 170	20.8	0.20	450WAS103M90170Y25B	
	2,200	64 × 100	7.2	0.20	450WAS222M64100Y25B	10,000	90 × 195	20.8	0.20	450WAS103M90195Y25B	
	2,200	64 × 115	7.2	0.20	450WAS222M64115Y25B	15,000	90 × 195	28.2	0.20	450WAS153M90195Y25B	
						22,000	90 × 250	29.7	0.20	450WAS223M90250Y25B	

WAS

标准品一览表、额定纹波电流

TYPICAL DIMENSIONS, RATED RIPPLE CURRENT

V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L±3mm	纹波电流 rms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No	V.DC	Cpa (uF)	外壳尺寸 Case Size φD±1×L±3mm	纹波电流 rms/85°C Ripple current Arms/85°C, 120Hz	损耗角正切值 (20°C, 120赫兹) Dissipation factor (20°C, 120Hz)	产品型号 Part No
500	330	51×80	1.7	0.20	500WAS331M5180Y25B	550	270	51×80	1.3	0.20	550WAS271M5180Y25B
	390	51×80	1.8	0.20	500WAS391M5180Y25B		330	51×80	1.7	0.20	550WAS331M5180Y25B
	470	51×80	2.0	0.20	500WAS471M5180Y25B		390	51×80	1.7	0.20	550WAS391M5180Y25B
	680	51×80	3.1	0.20	500WAS681M5180Y25B		470	51×80	2.0	0.20	550WAS471M5180Y25B
	680	51×100	2.5	0.20	500WAS681M51100Y25B		560	51×100	2.5	0.20	550WAS560M51100Y25B
	820	51×80	3.5	0.20	500WAS821M5180Y25B		680	51×100	2.5	0.20	550WAS681M51100Y25B
	820	51×115	3.5	0.20	500WAS821M51115Y25B		680	64×115	3.0	0.20	550WAS681M64115Y25B
	1,000	51×80	3.9	0.20	500WAS102M5180Y25B		820	51×115	2.9	0.20	550WAS821M51115Y25B
	1,000	64×100	3.4	0.20	500WAS102M64100Y25B		820	64×130	3.5	0.20	550WAS821M64130Y25B
	1,200	51×100	4.7	0.20	500WAS122M51100Y25B		1,000	64×100	3.4	0.20	550WAS102M64100Y25B
	1,500	51×115	5.6	0.20	500WAS152M51115Y25B		1,200	77×100	4.2	0.20	550WAS122M77100Y25B
	1,500	64×100	4.6	0.20	500WAS152M64100Y25B		1,500	77×100	4.6	0.20	550WAS152M77100Y25B
	1,800	51×130	6.5	0.20	500WAS182M51130Y25B		1,500	77×115	5.0	0.20	550WAS152M77115Y25B
	1,800	64×130	5.2	0.20	500WAS182M64130Y25B		1,800	64×130	5.2	0.20	550WAS182M64130Y25B
	2,200	64×100	7.2	0.20	500WAS222M64100Y25B		1,800	77×130	5.8	0.20	550WAS182M77130Y25B
	2,200	77×115	6.1	0.20	500WAS222M77115Y25B		2,200	77×115	6.1	0.20	550WAS222M77115Y25B
	2,700	64×115	8.6	0.20	500WAS272M64115Y25B		2,200	77×155	7.0	0.20	550WAS222M77155Y25B
	2,700	77×130	7.7	0.20	500WAS272M77130Y25B		2,700	77×155	7.0	0.20	550WAS272M77155Y25B
	3,300	77×100	9.8	0.20	500WAS332M77100Y25B		2,700	77×130	7.7	0.20	550WAS272M77130Y25B
	3,300	77×155	8.5	0.20	500WAS332M77155Y25B		3,300	77×155	8.5	0.20	550WAS332M77155Y25B
3,900	77×115	11.5	0.20	500WAS392M77115Y25B	3,300	90×155	9.3	0.20	550WAS332M90155Y25B		
3,900	77×155	10.1	0.20	500WAS392M77155Y25B	3,900	90×155	10.1	0.20	550WAS392M90155Y25B		
4,700	77×130	13.3	0.20	500WAS472M77130Y25B	600	270	51×80	1.3	0.20	600WAS271M5180Y25B	
5,600	77×155	15.7	0.20	500WAS562M77155Y25B	330	51×80	1.6	0.20	600WAS331M5180Y25B		
6,800	90×130	17.0	0.20	500WAS682M90130Y25B	390	51×80	1.7	0.20	600WAS391M5180Y25B		
6,800	90×175	18.6	0.20	500WAS682M90175Y25B	470	51×100	2.0	0.20	600WAS471M51100Y25B		
8,200	90×155	18.6	0.20	500WAS822M90155Y25B	560	64×100	2.5	0.20	600WAS560M64100Y25B		
10,000	90×195	20.8	0.20	500WAS103M90195Y25B	680	64×115	3.0	0.20	600WAS681M64115Y25B		
15,000	90×250	22.0	0.20	500WAS153M9025Y25B	820	64×130	3.5	0.20	600WAS821M64130Y25B		
18,000	100×250	29.0	0.20	500WAS183M100250Y25B	1,200	77×100	4.2	0.20	600WAS122M77100Y25B		
					1,500	77×115	5.0	0.20	600WAS152M77115Y25B		
					1,800	77×130	5.8	0.20	600WAS182M77130Y25B		
					2,200	77×155	7.0	0.20	600WAS222M77155Y25B		
					3,300	90×155	9.3	0.20	600WAS332M90155Y25B		
					3,900	90×155	10.2	0.20	600WAS392M90155Y25B		
					4,700	90×155	13.6	0.20	600WAS472M90155Y25B		
					5,600	90×155	15.8	0.20	600WAS562M90155Y25B		
					6,800	90×195	17.0	0.20	600WAS682M90195Y25B		
					8,200	90×210	18.9	0.20	600WAS822M90210Y25B		

●重要说明 Important note

- ◆KAOUNE并不了解每一个客户对产品的应用，也不比客户更了解他们对产品的应用。因此，客户负有最终的责任，根据其整机电路参数选择适合其的KAOUNE产品，并根据KAOUNE产品参数判定其是否适用。
- ◆我们也毫不避讳地指出，即使在正常的应用条件下无源电子元器件仍有可能在使用寿命结束前出现故障或失效。这在目前的技术水平下是无法完全排除的。因此，对于操作安全水平要求非常高的应用场合，特别是当无源电子元器件出现故障时可能会危及人身安全或健康的情况下，客户必须适当设计其应用装置或由客户采取措施（如安全保护性电路或冗余），确保在无源电子元件出现故障时，第三方不会受到伤害或损害。
- ◆我们的工程师持续不断地致力于改善产品。因此，本出版物所述产品可能会发生变化。所以，订货之前或订货的时候请咨询我们的销售工程师本出版物的产品说明和规格在多大程度上是适用的。我们保留产品尺寸及技术参数发生变更的权利。因此，我们不保证任何时候均可购买到本出版物所列全部产品。
- ◆由于客户的应用领域、安装尺寸、回路参数要求千差万别，对于同一电压同一容值的电容器亦是如此。因此，建议在订货前尽可能详尽地提供您所要求的信息，包括但不限于电压、容值、外形尺寸、安装尺寸及本出版物中《订货信息一览表》中所列明的项目。
- ◆KAOUNE do not understand each client on the application of the product, nor more than customers about their products. Customers have the ultimate responsibility to select suitable KAOUNE products for their whole circuit parameters, and under KAOUNE products parameters determine its applicability.
- ◆We also forthrightly pointed out that even in normal conditions of passive electronic components, it is still will failure or breakdown before the end of its useful life. And it cannot be completely excluded in the current level of technology. Therefore, requires a high level of operational safety applications, especially when passive electronic components failure could endanger the personal safety or health of the case, The customer must be properly designed appliance or measures taken by the customer (such as security protective circuitry or redundancy), to ensure when the failure in the passive electronic components, the third party will not harm or damage.
- ◆KAOUNE engineers constantly committed to improve the product. Therefore, the publication of the product may change. Therefore, please consult our sales engineer before order. We reserve the right to change the product dimensions and technical parameters. Therefore, we cannot guarantee that at any time can be purchased to the publications listed all products.
- ◆Due to the customer's applications, installation size, circuit parameters requirements vary widely, as well as the same capacitor values for the same voltage. Therefore, we suggest that provide requested information as much details as possible before order, including but not limited to voltage, capacitance, dimensions, installation size and the other parameters items of order information.

● 敬告和警告 Warning



- ◆ 电容器经过耐压测试后或退出运行后，其上存储的能量足以对人身造成伤害。因此，在接触电容器出线端子之前必须首先经过电阻放电、再短接引出端子，确保残存电荷泄放掉。
- ◆ 金属化薄膜介质电容器不应过多直接短路放电。短路放电试验属于型式试验项目，做过型式试验的产品不宜再正常使用。
- ◆ 进行耐压测试会对其绝缘造成损害，且该损害具备累积效应。
- ◆ 电容器与电路的连接应可靠，避免接触不良引起高频振荡造成电容器过压或过热。
- ◆ 避免电容器暴露于强酸、强碱及其他腐蚀性介质的环境中运行。
- ◆ 避免电容器在充满易燃易爆的气体或尘埃的环境中运行。
- ◆ 避免外部能量传导到电容器内部，如火、热、雷电。
- ◆ 避免电容器过温运行。
- ◆ 避免电容器异常过载。
- ◆ 避免核辐射。
- ◆ After resistant voltage test or out of operation, the capacitor stored energy is sufficient to cause the damage to the human. Therefore, in contact with the capacitor outlet terminals must discharge through the resistor first, and then short-circuited lead terminal, ensure that the residual charge of release.
- ◆ Metalized film dielectric capacitors should not over discharge to the short circuit. Short circuit discharge test are type of pilot projects, the test products are not appropriate to normal use.
- ◆ Excessive resistant voltage capacitor test will damage the insulation, and the damage has a cumulative effect.
- ◆ The capacitor circuit connection should be reliable, to avoid capacitor overvoltage or overheating by high-frequency oscillation because of poor contact.
- ◆ Avoid capacitor is exposed to strong acid, alkali and other corrosive medium environment operate.
- ◆ Avoid the capacitor filled with flammable and explosive gas or dust environment operate.
- ◆ Avoid external energy transmitted to the capacitor internal, such as fire, heat, electricity.
- ◆ Avoid capacitor operate over-temperature.
- ◆ Avoid capacitor abnormal overload.
- ◆ Avoid nuclear radiation.