

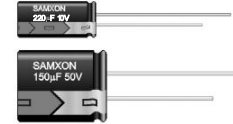
GT Series

SAMXON®

+105°C, High Ripple Current(高紋波), Long Life Assurance(長壽命), Low Impedance(低阻抗品)

FEATURES

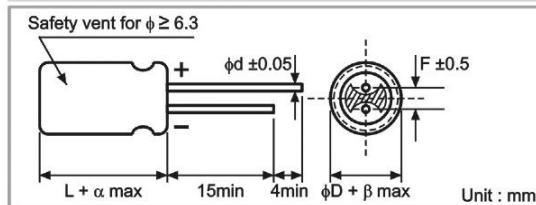
1. Low impedance for high frequency
2. Long life:4000~10000 hours at 105°C



SPECIFICATIONS

Item	Performance Characteristics																											
Operating Temperature Range	-40 to +105°C																											
Rated Working Voltage Range	6.3 to 100V																											
Nominal Capacitance Range	15 to 3900µF																											
Capacitance Tolerance	±20% (120Hz, +20°C)																											
Leakage Current	I ≤ 0.01CV or 3(µA) (after 2 minutes, whichever is greater) I=Leakage Current(µA) C=Nominal Capacitance(µF) V=Rated Voltage(V)																											
tan δ (120Hz, +20°C)	<table border="1"> <tr> <td>Working Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>tan δ (max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </table> <p>For capacitance value > 1000 µF, add 0.02 per another 1000 µF</p>	Working Voltage (V)	6.3	10	16	25	35	50	63	100	tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08									
Working Voltage (V)	6.3	10	16	25	35	50	63	100																				
tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																				
Low Temperature Characteristics	<p>Impedance ratio max. at 120Hz</p> <table border="1"> <tr> <td>Rated Voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage(V)	6.3	10	16	25	35	50	63	100	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2	Z-40°C / Z+20°C	8	6	4	3	3	3	3	3
Rated Voltage(V)	6.3	10	16	25	35	50	63	100																				
Z-25°C / Z+20°C	4	3	2	2	2	2	2	2																				
Z-40°C / Z+20°C	8	6	4	3	3	3	3	3																				
High Temperature Loading	<p>Test conditions</p> <table border="1"> <tr> <td>Duration :</td> <td>φD</td> <td>5 ~ 6.3</td> <td>8~10</td> <td>12.5</td> </tr> <tr> <td></td> <td>6.3~10VV</td> <td>4000h</td> <td>6000h</td> <td>8000h</td> </tr> <tr> <td></td> <td>16~100VV</td> <td>5000h</td> <td>7000h</td> <td>10000h</td> </tr> </table> <p>Ambient temp. : +105°C Applied voltage : Rated DC working voltage with max. ripple current</p> <p>Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap. change : within ±25% of initial measured value tan δ : ≤ 200% of initial specified value</p>	Duration :	φD	5 ~ 6.3	8~10	12.5		6.3~10VV	4000h	6000h	8000h		16~100VV	5000h	7000h	10000h												
Duration :	φD	5 ~ 6.3	8~10	12.5																								
	6.3~10VV	4000h	6000h	8000h																								
	16~100VV	5000h	7000h	10000h																								
Shelf Life	<p>Test conditions</p> <p>Duration : 1000 hours Ambient temp. : +105°C Applied voltage : (None)</p> <p>Post test requirements at +20°C Same limits for high temperature loading</p>																											
Others	JIS C - 5101 (IEC 60384)																											

CASE SIZE TABLE

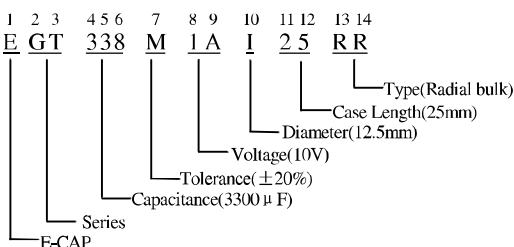


φD	6.3	8(L<20)	8(L≥20)	10	12.5		
F	2.5	3.5		5.0	5.0		
φd	0.5		0.6				
α	(L < 20) 1.5		(L ≥ 20) 2.0				
β	(D < 20) 0.5		(D ≥ 20) 1.0				

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient						
Cap(µF)	Coefficient - Freq.(Hz)	50	120	300	1k	100k
15 ~ 33		0.45	0.55	0.70	0.90	1.00
39 ~ 330		0.60	0.70	0.85	0.95	1.00
390 ~ 1000		0.65	0.75	0.90	0.98	1.00
1200 ~ 3900		0.75	0.80	0.95	1.00	1.00

PART NUMBER SYSTEM(EXAMPLE:10V3300µF)



GT

Miniature Aluminum Electrolytic Capacitors

+105°C, High Ripple Current(高紋波), Long Life Assurance(長壽命), Low Impedance(低阻抗品)

STANDARD RATINGS

Voltage(Code)		6.3V(0J)			10V(1A)			16V(1C)		
Cap.(µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
120	127							6.3x11	0.220	340
150	157									
220	227				6.3x11	0.220	340			
330	337	6.3x11	0.220	340				8x12	0.130	640
470	477				8x12	0.130	640	8x16	0.087	840
								10x12.5	0.080	865
680	687	8x12	0.130	640	8x16	0.087	840	8x20	0.069	1050
820	827	10x12.5	0.080	865	10x12.5	0.080	865	10x16	0.060	1210
1000	108	8x16	0.087	840	8x20	0.069	1050	10x20	0.046	1400
					10x16	0.060	1210			
1200	128	8x20	0.069	1050	10x20	0.046	1400	10x25	0.042	1650
		10x16	0.060	1210						
1500	158	10x20	0.046	1400	10x25	0.042	1650	10x30	0.031	1910
								12.5x20	0.035	1900
2200	228	10x25	0.042	1650	10x30	0.031	1910	12.5x25	0.030	2124
2700	278	10x30	0.031	1910	12.5x20	0.035	1900			
3300	338	12.5x20	0.035	1900	12.5x25	0.030	2124			
3900	398	12.5x25	0.030	2124						

Maximum Allowable Ripple Current(mA rms)at 105°C 100kHz
 Maximum Impedance(Ω) at 20°C 100kHz

Case Size ΦDxL(mm)

Voltage(Code)		25V(1E)			35V(1V)			50V(1H)		
Cap.(µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
56	566				6.3x11	0.220	340	6.3x11	0.300	295
100	107	6.3x11	0.220	340				8x12	0.170	555
120	127							8x16	0.120	730
150	157				8x12	0.130	640	10x12.5	0.120	760
220	227	8x12	0.130	640	8x16	0.087	840	10x16	0.084	1050
					10x12.5	0.080	865			
330	337	8x16	0.087	840	10x16	0.060	1210	10x25	0.055	1440
		10x12.5	0.080	865						
470	477	8x20	0.069	1050	10x20	0.046	1400	10x30	0.043	1690
		10x16	0.060	1210				12.5x20	0.045	1660
560	567				10x25	0.042	1650	12.5x25	0.034	1950
680	687	10x20	0.046	1400	10x30	0.031	1910			
					12.5x20	0.035	1900			
820	827	10x25	0.042	1650						
1000	108	10x30	0.031	1910	12.5x25	0.030	2124			
		12.5x20	0.035	1900						
1500	158	12.5x25	0.030	2124						

Maximum Allowable Ripple Current(mA rms)at 105°C 100kHz
 Maximum Impedance(Ω) at 20°C 100kHz

Case Size ΦDxL(mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

+105°C, High Ripple Current(高紋波), Long Life Assurance(長壽命), Low Impedance(低阻抗品)

STANDARD RATINGS

Voltage(Code)		63V(1J)			100V(2A)					
Cap.(μ F)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current			
15	156				6.3x11	0.960	115			
27	276				8x12	0.504	232			
33	336	6.3x11	0.960	115						
39	396				8x16	0.360	300			
47	476				10x12.5	0.344	314			
56	566	8x12	0.504	232	8x20	0.264	362			
68	686				10x16	0.248	357			
82	826	8x16	0.360	300	10x20	0.168	466			
		10x12.5	0.344	314						
100	107				10x25	0.160	531			
120	127	8x20	0.264	362	10x30	0.120	663			
		10x16	0.248	357	12.5x20	0.128	690			
180	187	10x20	0.168	466	12.5x25	0.096	922			
220	227	10x25	0.160	531						
270	277	10x30	0.120	663						
		12.5x20	0.128	690						
330	337	12.5x25	0.096	922						

Maximum Allowable Ripple Current(mA rms)at 105°C 100kHz

Case Size Φ DxL(mm)

Maximum Impedance(Ω) at 20°C 100kHz

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

Part Number System (產品編碼)

1 2 3			4 5 6			7	8 9		10 11 12			13 14		15 16		17	
E G S			1 0 5			M	1 H		D 1 1			T C		S A		P	
SERIES			CAPACITANCE			TOLERANCE		VOLTAGE		CASE SIZE			TYPE		SAMXON PRODUCT LINE		SLEEVE MATERIAL
Series	Cap (uF)	Code	Tol. (%)	Code	Vol. (W.V)	Code	Case Size		Feature	Code	SAMXON Product Line		Sleeve Material	Code			
EKF	0.1	104	±5	J	2	0D	Diameter(ϕ)		Radial bulk	RR	For internal use only (The product lines we have H,A,B,C,D,E,M or 0,1,2,3,4,5,9).		PET	P			
EKS							Code		Ammo Taping								
EGS							3	B									
EKM	0.22	224	±10	K	2.5	0E	Len. (mm)		2.0mm Pitch	TT	PVC	If the sleeve material is PVC, there will be blank in seventeenth digit.					
EKG							Code		2.5mm Pitch	TU							
EOM							3.5	1									
EGF	0.33	334	±15	L	4	0G	Code		3.5mm Pitch	TV							
ESF							Code		5.0mm Pitch	TC							
EGT							5	D									
EGK	0.47	474	±20	M	6.3	0J	Code		Lead Cut & Form								
ESH							Code		CB-Type	CB							
ESK							6.3	E									
ESK	1	105	-40	0	8	0K	Code		CE-Type	CE							
ESH							Code		HE-Type	HE							
ESK							8	F									
ESH	2.2	225	-20	0	10	1A	Code		KD-Type	KD							
ERS							Code		FD-Type	FD							
EGY							10	G									
ERF	3.3	335	-20	+10	12.5	1B	Code		EH-Type	EH							
ERR							Code		PCB Terminal	SW							
ERT							12.5	I									
ERE	4.7	475	-20	+40	16	1C	Code		Snap-in	SX							
ERD							Code				Lug	SG					
ERH							16	J									
ERD	10	106	-20	+50	18	1D	Code		Screw	O5							
ERH							Code				O6	T5					
EBD							18	K									
ERA	22	226	-10	0	20	1E	Code				D5	D6					
ERB							Code						O6	T5			
ERC							20	L									
EFA	47	476	-10	+20	25	1F	Code		Snap-in	SX							
ENP							Code				Lug	SG					
ENH							25	M									
ERW	100	107	-10	+30	30	1G	Code		Screw	O6							
ERY							Code				O6	T5					
ELP							30	N									
EAP	220	227	-10	+50	35	1H	Code				D5	D6					
EAP							Code						O6	T5			
EQP							35	O									
EDP	330	337	+13	+50	40	1I	Code		Snap-in	SX							
ETP							Code				Lug	SG					
EHP							40	P									
EHP	470	477	-5	+15	42	1J	Code		Screw	O6							
EUP							Code				O6	T5					
EKP							42	Q									
EPK	2200	228	-5	+20	45	1K	Code				D5	D6					
EEP							Code						O6	T5			
EEP							45	R									
EFP	22000	229	0	+20	50	1L	Code		Snap-in	SX							
ESP							Code				Lug	SG					
EVP							50	S									
EGP	33000	339	0	+20	55	1M	Code		Screw	O6							
EWR							Code				O6	T5					
EWR							55	T									
EWR	47000	479	0	+30	60	1N	Code				Snap-in	SX					
EWI							Code						Lug	SG			
EWT							60	U									
EWT	100000	10T	0	+50	63	1O	Code		Screw	O6							
EWX							Code				O6	T5					
EWX							63	V									
EWX	150000	15T	+5	+15	70	1P	Code				Snap-in	SX					
EWX							Code						Lug	SG			
EWX							70	W									
EWX	220000	22T	+5	+20	75	1Q	Code		Screw	O6							
VSS							Code				O6	T5					
VSS							75	X									
VKS	330000	33T	+5	+20	80	1R	Code				Snap-in	SX					
VKM							Code						Lug	SG			
VKM							80	Y									
VRL	1000000	10M	+10	+50	85	1S	Code		Screw	O6							
VZS							Code				O6	T5					
VZS							85	Z									
VRF	1500000	15M	+5	+20	90	1T	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							90	1									
VRF	2200000	22M	+5	+20	100	1U	Code		Screw	O6							
VRF							Code				O6	T5					
VRF							100	2									
VRF	3300000	33M	+10	+50	110	1V	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							110	3									
VRF	3300000	33M	+10	+50	120	1W	Code		Screw	O6							
VRF							Code				O6	T5					
VRF							120	4									
VRF	3300000	33M	+10	+50	130	1X	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							130	5									
VRF	3300000	33M	+10	+50	140	1Y	Code		Screw	O6							
VRF							Code				O6	T5					
VRF							140	6									
VRF	3300000	33M	+10	+50	150	1Z	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							150	7									
VRF	3300000	33M	+10	+50	160	2A	Code		Screw	O6							
VRF							Code				O6	T5					
VRF							160	8									
VRF	3300000	33M	+10	+50	170	2B	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							170	9									
VRF	3300000	33M	+10	+50	180	2C	Code		Screw	O6							
VRF							Code				O6	T5					
VRF							180	0									
VRF	3300000	33M	+10	+50	190	2D	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							190	1									
VRF	3300000	33M	+10	+50	200	2E	Code		Screw	O6							
VRF							Code				O6	T5					
VRF							200	2									
VRF	3300000	33M	+10	+50	210	2F	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							210	3									
VRF	3300000	33M	+10	+50	220	2G	Code		Screw	O6							
VRF							Code				O6	T5					
VRF							220	4									
VRF	3300000	33M	+10	+50	230	2H	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							230	5									
VRF	3300000	33M	+10	+50	240	2I	Code		Screw	O6							
VRF							Code				O6	T5					
VRF							240	6									
VRF	3300000	33M	+10	+50	250	2J	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							250	7									
VRF	3300000	33M	+10	+50	260	2K	Code		Screw	O6							
VRF							Code				O6	T5					
VRF							260	8									
VRF	3300000	33M	+10	+50	270	2L	Code				Snap-in	SX					
VRF							Code						Lug	SG			
VRF							270	9									