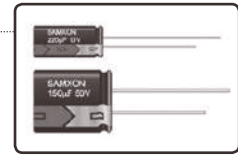


+105°C, High Ripple Current (高紋波), Longer Life Assurance (較長壽命), Low Impedance (低阻抗品)

FEATURES

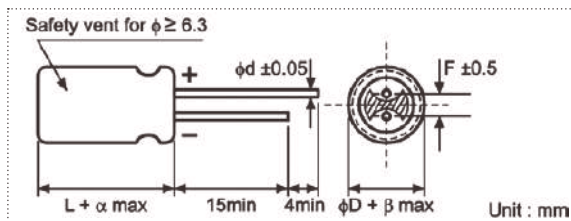
- Low impedance for high frequency.
- Load life of 4,000~10,000 hours at 105°C.



SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated Working Voltage Range	6.3 to 100V								
Nominal Capacitance Range	15 to 4700µF								
Capacitance Tolerance	±20% at 120Hz, +20°C								
Leakage Current	I ≤ 0.01CV or 3 (µA)								
	whichever is greater measured after 2 minutes application of rated working voltage at +20°C								
tan δ (120Hz, +20°C)	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
	For capacitance value >1000µF, add 0.02 per another 1000µF								
Low Temperature Characteristics	Impedance ratio max. at 120Hz								
	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	Test time	ΦD	5-6.3	8-10	≥12.5	Post test requirements at +20°C			
		63-100W	4,000h	6,000h	8,000h	Leakage current : ≤Initial specified value			
		16-100WV	5,000h	7,000h	10,000h	Cap. change : within ±25% of the initial measured value			
	Test temperature	: +105°C							
Test conditions	: Rated DC working voltage with rated ripple current				tan δ		: ≤200% of the initial specified value		
Shelf Life	At +105°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits								
	Leakage current : ≤Initial specified value								
	Cap. change : within ±25% of the initial measured value								
Industrial Standard	tan δ : ≤200% of the initial specified value								
	JIS C - 5101-4 (IEC 60384-4)								

CASE SIZE TABLE



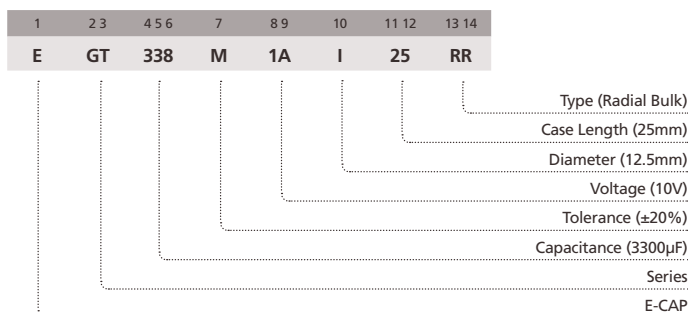
ΦD	6.3	8 (L <20)	8 (L ≥20)	10	12.5	16
F	2.5	3.5	3.5	5.0	5.0	7.5
Φd	0.5	0.5	0.6	0.6	0.6	0.8
α	(L <20) 1.5			(L ≥20) 2.0		
β	(D <20) 0.5			(D ≥20) 1.0		

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Coefficient	50	120	300	1k	100k
Cap (µF)					
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
1200~4700	0.75	0.80	0.95	1.00	1.00

PART NUMBER SYSTEM (EXAMPLE : 10V 3300µF)



GT

Miniature Aluminum Electrolytic Capacitors

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							6.3 x 11	0.220	340
220	227				6.3 x 11	0.220	340	6.3 x 11	0.220	340
330	337	6.3 x 11	0.220	340				8 x 12	0.130	640
470	477				6.3 x 11	0.220	340	8 x 12	0.130	640
								8 x 16	0.087	840
					8 x 12	0.130	640	10 x 12.5	0.080	865
680	687	8 x 12	0.130	640	8 x 16	0.087	840	8 x 16	0.087	840
					10 x 12.5	0.080	865	8 x 20	0.069	1050
820	827	10 x 12.5	0.080	865				10 x 16	0.060	1210
1000	108	8 x 16	0.087	840	8 x 20	0.069	1050	8 x 20	0.069	1050
		10 x 12.5	0.080	865	10 x 16	0.060	1210	10 x 16	0.060	1210
								10 x 20	0.046	1400
1200	128	8 x 20	0.069	1050	10 x 20	0.046	1400	10 x 20	0.046	1400
		10 x 16	0.060	1210				10 x 25	0.042	1650
1500	158	10 x 20	0.046	1400	10 x 25	0.042	1650	10 x 20	0.046	1400
								10 x 30	0.031	1910
								12.5 x 20	0.035	1900
2200	228	10 x 25	0.042	1650	10 x 30	0.031	1910	12.5 x 25	0.030	2124
					12.5 x 20	0.035	1900			
2700	278	10 x 30	0.031	1910						
3300	338	12.5 x 20	0.035	1900	12.5 x 25	0.030	2124	12.5 x 25	0.030	2124
								16 x 20	0.035	2210
3900	398	12.5 x 25	0.030	2124						
4700	478							16 x 25	0.028	2552

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

Case Size ΦD x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

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STANDARD RATINGS

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
47	476							6.3 x 11	0.300	295
56	566				6.3 x 11	0.220	340	6.3 x 11	0.300	295
100	107	6.3 x 11	0.220	340	6.3 x 11	0.220	340	8 x 12	0.170	555
120	127							8 x 16	0.120	730
150	157				8 x 12	0.130	640	10 x 12.5	0.120	760
180	187							8 x 12	0.170	555
220	227	6.3 x 11	0.220	340	8 x 12	0.130	640	8 x 16	0.120	730
		8 x 12	0.130	640	8 x 16	0.087	840	10 x 12.5	0.120	760
270	277				10 x 12.5	0.080	865	10 x 16	0.084	1050
								10 x 20	0.060	1220
330	337	8 x 16	0.087	840	10 x 12.5	0.080	865	10 x 16	0.084	1050
		10 x 12.5	0.080	865	10 x 16	0.060	1210	10 x 25	0.055	1440
470	477	8 x 12	0.130	640	8 x 20	0.069	1050	10 x 16	0.084	1050
		8 x 16	0.087	840	10 x 16	0.060	1210	10 x 20	0.060	1220
		8 x 20	0.069	1050				10 x 30	0.043	1690
		10 x 16	0.060	1210	10 x 20	0.046	1400	12.5 x 20	0.045	1660
560	567				10 x 25	0.042	1650	10 x 20	0.060	1220
								12.5 x 25	0.034	1950
680	687	8 x 20	0.069	1050	10 x 20	0.046	1400	12.5 x 20	0.045	1660
		10 x 16	0.060	1210	10 x 30	0.031	1910			
		10 x 20	0.046	1400	12.5 x 20	0.035	1900			
820	827	10 x 20	0.046	1400	10 x 25	0.042	1650	12.5 x 20	0.045	1660
		10 x 25	0.042	1650				12.5 x 25	0.034	1950
1000	108	10 x 16	0.060	1210	12.5 x 20	0.035	1900	12.5 x 25	0.034	1950
		10 x 20	0.046	1400						
		10 x 25	0.042	1650	12.5 x 25	0.030	2124			
		10 x 30	0.031	1910						
12.5 x 20	0.035	1900								
1500	158	12.5 x 20	0.035	1900	12.5 x 25	0.030	2124			
		12.5 x 25	0.030	2124						
2200	228	12.5 x 25	0.030	2124	12.5 x 30	0.026	2524			

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

Case Size ΦD x L (mm)

Maximum Impedance (Ω) at 20°C 100kHz

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STANDARD RATINGS

Voltage (Code)		63V (1J)			100V (2A)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
15	156				6.3 x 11	0.960	115
22	226				6.3 x 11	0.960	115
27	276				8 x 12	0.504	232
33	336	6.3 x 11	0.960	115	8 x 12	0.504	232
39	396				8 x 16	0.360	300
47	476	6.3 x 11	0.960	115	10 x 12.5	0.344	314
56	566	8 x 12	0.504	232	8 x 20	0.264	362
68	686	8 x 12	0.504	232	10 x 16	0.248	357
82	826	8 x 16	0.360	300	10 x 20	0.168	466
		10 x 12.5	0.344	314			
100	107	10 x 12.5	0.344	314	10 x 16	0.248	357
					10 x 20	0.168	466
					10 x 25	0.160	531
120	127	8 x 20	0.264	362	10 x 30	0.120	663
		10 x 16	0.248	357	12.5 x 20	0.128	690
150	157				10 x 20	0.168	466
180	187	10 x 20	0.168	466	12.5 x 25	0.096	922
		10 x 16	0.248	357	12.5 x 25	0.096	922
			0.160	531			
270	277	10 x 20	0.168	466			
		10 x 30	0.120	663			
		12.5 x 20	0.128	690			
330	337	10 x 20	0.168	466	12.5 x 30	0.080	905
		12.5 x 20	0.128	690			
390	397	12.5 x 25	0.096	922			
		12.5 x 20	0.128	690			
470	477	12.5 x 20	0.128	690	16 x 25	0.058	1250
		12.5 x 25	0.096	922			
680	687	12.5 x 25	0.096	922			
820	827	12.5 x 40	0.057	1300			
		16 x 25	0.058	1250			
1000	108	16 x 25	0.058	1250			
1200	128	16 x 25	0.058	1250			

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

Maximum Impedance (Ω) at 20°C 100kHz

Case Size ΦD x L (mm)

GT

Miniature Aluminum Electrolytic Capacitors

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