

### G-AA Series 85°C, 3000 hours

- General purpose for industrial applications
- High ripple current with 3000 hour life
- Stud mount available



Rated Working Voltage:	16 ~ 500 VDC	Ripple Current Multipliers:	Frequency (Hz):	50	60	100-120	300-360	1k	10k~
Operating Temperature:	-40 ~ +85°C		16-100WV:	0.9	0.95	1.0	1.05	1.08	1.15
Nominal Capacitance:	150 ~ 1200000µF		160-500WV:	0.75	0.8	1.0	1.2	1.25	1.4
Capacitance Tolerance:	± 20%		Ambient Temperature Factor**						
Max. Leakage Current:	3√CV (µA) after 5 minutes; C = Cap. in µF, V = WV		Ambient Temperature:	85°C	70°C	60°C	≤45°C		
Endurance:	3000 hours at +85°C*	Ripple Current Factor:	1.0	1.6	2.0	2.2			

\*with maximum rated ripple current applied. See page 6 for additional details. \*\*Use of temperature ripple current multipliers may limit life to the hours specified for the maximum operating temperature.

### Part Number System

**E E G**  
Common Code

**A**  
Series Code

**□ □**  
Voltage Code

**□ □ □**  
Capacitance Code

**□ □**  
Case Size Code

**□**  
Terminal / Mounting Code

"E" code (high post, 10-32 NF-2B thread, no stud) is shown. Please see page 46 for other terminal and mounting options

NOTE: Series code in part number formerly "AA", shortened to "A"

### G-AA Typical Ratings

Cap. (µF)	Nominal Size D x L (inches)	Max 85°C R.C. (A <sub>rms</sub> )		20°C ESR (Ω, max.)		Panasonic Part Number	Cap. (µF)	Nominal Size D x L (inches)	Max 85°C R.C. (A <sub>rms</sub> )		20°C ESR (Ω, max.)		Panasonic Part Number
		120Hz	10kHz~	120Hz	20kHz				120Hz	10kHz~	120Hz	20kHz	
<b>16 VDC Working, 20 VDC Surge</b>							<b>20 VDC Working, 24 VDC Surge (continued)</b>						
33000	1.375 x 1.625	5.16	5.93	0.0313	0.0281	EEGA1C333CAE	82000	1.375 x 4.125	10.21	11.74	0.0129	0.0116	EEGA1D823CCE
39000	1.375 x 2.125	5.86	6.74	0.0269	0.0242	EEGA1C393CCE		2.000 x 2.125	10.70	12.31	0.0129	0.0116	EEGA1D823FCE
56000	1.375 x 2.625	7.30	8.40	0.0196	0.0177	EEGA1C563CCE	100000	1.375 x 4.625	11.45	13.17	0.0112	0.0100	EEGA1D104CLE
68000	1.375 x 3.125	8.31	9.56	0.0167	0.0150	EEGA1C683CCE		2.000 x 2.625	12.17	14.00	0.0112	0.0100	EEGA1D104FEE
82000	1.375 x 3.625	9.37	10.78	0.0143	0.0129	EEGA1C823CHE	110000	1.375 x 5.125	12.25	14.09	0.0104	0.0094	EEGA1D114CNE
	2.000 x 1.875	10.01	11.51	0.0143	0.0129	EEGA1C823FBE	120000	1.375 x 5.625	13.04	15.00	0.0098	0.0088	EEGA1D124CPE
100000	1.375 x 4.125	10.51	12.09	0.0123	0.0110	EEGA1C104CKE		2.000 x 3.125	13.57	15.61	0.0098	0.0088	EEGA1D124FGE
	2.000 x 2.125	11.01	12.66	0.0123	0.0110	EEGA1C104FCE	150000	2.000 x 3.625	15.22	17.50	0.0085	0.0077	EEGA1D154FHE
120000	1.375 x 4.625	11.67	13.42	0.0107	0.0096	EEGA1C124CLE	180000	2.000 x 4.125	16.68	19.18	0.0076	0.0069	EEGA1D184FKE
	2.000 x 2.625	12.41	14.27	0.0107	0.0096	EEGA1C124FEE	220000	2.000 x 5.125	18.86	21.69	0.0068	0.0061	EEGA1D224FNE
130000	1.375 x 5.125	12.41	14.27	0.0101	0.0091	EEGA1C134CNE		2.500 x 3.125	19.08	21.94	0.0068	0.0061	EEGA1D224GGE
150000	1.375 x 5.625	13.44	15.46	0.0091	0.0082	EEGA1C154CPE	270000	2.000 x 5.625	20.50	23.58	0.0061	0.0055	EEGA1D274FPE
	2.000 x 3.125	13.98	16.08	0.0091	0.0082	EEGA1C154FGE		2.500 x 3.625	20.89	24.02	0.0061	0.0055	EEGA1D274GHE
180000	2.000 x 3.625	15.42	17.73	0.0081	0.0073	EEGA1C184FHE	330000	2.500 x 4.125	22.62	26.01	0.0056	0.0050	EEGA1D334GKE
220000	2.000 x 4.125	16.93	19.47	0.0072	0.0064	EEGA1C224FKE		3.000 x 3.125	23.92	27.51	0.0056	0.0050	EEGA1D334HGE
270000	2.000 x 5.125	19.08	21.94	0.0052	0.0047	EEGA1C274FNE	390000	2.500 x 4.625	24.21	27.84	0.0052	0.0047	EEGA1D394GLE
	2.500 x 3.125	19.31	22.21	0.0064	0.0057	EEGA1C274GGE		3.000 x 3.625	25.62	29.46	0.0052	0.0047	EEGA1D394HHE
330000	2.000 x 5.625	20.63	23.72	0.0070	0.0063	EEGA1C334FPE	430000	2.500 x 5.125	25.38	29.19	0.0050	0.0045	EEGA1D434GNE
	2.500 x 3.625	21.02	24.17	0.0057	0.0052	EEGA1C334GHE	470000	2.500 x 5.625	26.49	30.46	0.0049	0.0044	EEGA1D474GPE
390000	2.500 x 4.125	22.50	25.88	0.0053	0.0048	EEGA1C394GKE		3.000 x 4.125	27.34	31.44	0.0049	0.0044	EEGA1D474HKE
	3.000 x 3.125	23.79	27.36	0.0053	0.0048	EEGA1C394HGE	560000	3.000 x 4.625	29.03	33.38	0.0046	0.0041	EEGA1D564HLE
470000	2.500 x 4.625	24.11	27.73	0.0049	0.0044	EEGA1C474GLE	620000	3.000 x 5.125	30.25	34.79	0.0045	0.0040	EEGA1D624HNE
	3.000 x 3.625	25.51	29.34	0.0049	0.0044	EEGA1C474HHE	680000	3.000 x 5.625	31.41	36.12	0.0044	0.0039	EEGA1D684HPE
500000	2.500 x 5.125	25.05	28.81	0.0048	0.0043	EEGA1C504GNE	1000000	3.000 x 8.625	37.54	43.17	0.0040	0.0036	EEGA1D105HWE
560000	2.500 x 5.625	26.23	30.16	0.0046	0.0041	EEGA1C564GPE	<b>25 VDC Working, 32 VDC Surge</b>						
	3.000 x 4.125	27.08	31.14	0.0046	0.0041	EEGA1C564HKE	22000	1.375 x 1.625	4.93	5.67	0.0234	0.0199	EEGA1E223CAE
680000	3.000 x 4.625	28.74	33.05	0.0043	0.0039	EEGA1C684HLE	27000	1.375 x 2.125	5.70	6.56	0.0196	0.0167	EEGA1E273CCE
750000	3.000 x 5.125	29.88	34.36	0.0042	0.0037	EEGA1C754HNE	39000	1.375 x 2.625	7.16	8.23	0.0144	0.0123	EEGA1E393CEE
820000	3.000 x 5.625	30.97	35.62	0.0040	0.0036	EEGA1C824HPE	47000	1.375 x 3.125	8.15	9.37	0.0124	0.0106	EEGA1E473CGE
1200000	3.000 x 8.625	36.78	42.30	0.0037	0.0033	EEGA1C125HWE	56000	1.375 x 3.625	9.17	10.55	0.0109	0.0092	EEGA1E563CHE
<b>20 VDC Working, 24 VDC Surge</b>								2.000 x 1.875	9.78	11.25	0.0109	0.0092	EEGA1E563FBE
27000	1.375 x 1.625	4.95	5.69	0.0327	0.0295	EEGA1D273CAE	68000	1.375 x 4.125	10.31	11.86	0.0094	0.0080	EEGA1E683CCE
33000	1.375 x 2.125	5.72	6.58	0.0274	0.0246	EEGA1D333CCE		2.000 x 2.125	10.79	12.41	0.0094	0.0080	EEGA1E683FCE
47000	1.375 x 2.625	7.12	8.19	0.0202	0.0181	EEGA1D473CCE	82000	1.375 x 4.625	11.53	13.26	0.0083	0.0070	EEGA1E823CLE
56000	1.375 x 3.125	8.05	9.26	0.0174	0.0157	EEGA1D563CCE		2.000 x 2.625	12.24	14.08	0.0083	0.0070	EEGA1E823FEE
68000	1.375 x 3.625	9.12	10.49	0.0149	0.0134	EEGA1D683CHE	91000	1.375 x 5.125	12.39	14.25	0.0077	0.0066	EEGA1E913CNE
	2.000 x 1.875	9.75	11.21	0.0149	0.0134	EEGA1D683FBE	100000	1.375 x 5.625	13.23	15.21	0.0073	0.0062	EEGA1E104CPE

## G-AA Typical Ratings (continued)

Cap. ( $\mu$ F)	Nominal Size D x L (inches)	Max 85°C R.C. ( $A_{rms}$ )		20°C ESR ( $\Omega$ , max.)		Panasonic Part Number	Cap. ( $\mu$ F)	Nominal Size D x L (inches)	Max 85°C R.C. ( $A_{rms}$ )		20°C ESR ( $\Omega$ , max.)		Panasonic Part Number
		120Hz	10KHz-	120Hz	20KHz				120Hz	10KHz-	120Hz	20KHz	
<b>25 VDC Working, 32 VDC Surge (continued)</b>							<b>50 VDC Working, 63 VDC Surge (continued)</b>						
100000	2.000 x 3.125	13.75	15.81	0.0073	0.0062	EEGA1E104FGE	140000	2.500 x 5.125	20.36	23.41	0.0049	0.0042	EEGA1H144GNE
120000	2.000 x 3.625	15.24	17.53	0.0065	0.0056	EEGA1E124FHE	150000	2.500 x 5.625	21.28	24.47	0.0047	0.0040	EEGA1H154GPE
150000	2.000 x 4.125	16.98	19.53	0.0058	0.0049	EEGA1E154FKE	3.000 x 4.125	21.91	25.20	0.0047	0.0040	EEGA1H154HKE	
180000	2.000 x 5.125	19.13	22.00	0.0053	0.0045	EEGA1E184FNE	180000	3.000 x 4.625	23.63	27.17	0.0043	0.0037	EEGA1H184HLE
	2.500 x 3.125	19.33	22.23	0.0053	0.0045	EEGA1E184GGE	200000	3.000 x 5.125	24.84	28.57	0.0041	0.0035	EEGA1H204HNE
220000	2.000 x 5.625	20.84	23.97	0.0048	0.0041	EEGA1E224FPE	220000	3.000 x 5.625	25.99	29.89	0.0039	0.0033	EEGA1H224HPE
	2.500 x 3.625	21.20	24.38	0.0048	0.0041	EEGA1E224GHE	390000	3.000 x 8.625	32.95	37.89	0.0032	0.0027	EEGA1H394HWE
270000	2.500 x 4.125	23.05	26.51	0.0044	0.0038	EEGA1E274GKE	<b>63 VDC Working, 79 VDC Surge</b>						
	3.000 x 3.125	24.34	27.99	0.0044	0.0038	EEGA1E274HGE	6800	1.375 x 1.625	3.35	3.85	0.0542	0.0461	EEGA1J682CAE
310000	2.500 x 4.625	24.57	28.26	0.0042	0.0036	EEGA1E314GLE	8200	1.375 x 2.125	3.85	4.43	0.0449	0.0382	EEGA1J822CCE
330000	2.500 x 5.125	25.60	29.44	0.0041	0.0035	EEGA1E334GNE	12000	1.375 x 2.625	4.90	5.64	0.0307	0.0261	EEGA1J123CEE
	3.000 x 3.625	26.34	30.29	0.0041	0.0035	EEGA1E334HPE	15000	1.375 x 3.125	5.70	6.56	0.0246	0.0209	EEGA1J153CGE
390000	2.500 x 5.625	27.21	31.29	0.0039	0.0033	EEGA1E394GPE	2.000 x 1.875	6.34	7.29	0.0295	0.0251	EEGA1J153FBE	
	3.000 x 4.125	28.06	32.27	0.0039	0.0033	EEGA1E394HKE	18000	1.375 x 3.625	6.47	7.44	0.0205	0.0174	EEGA1J183CHE
470000	3.000 x 4.625	29.91	34.40	0.0037	0.0032	EEGA1E474HLE	2.000 x 2.125	7.01	8.06	0.0246	0.0209	EEGA1J183FCE	
520000	3.000 x 5.125	31.20	35.88	0.0036	0.0031	EEGA1E524HNE	22000	1.375 x 4.125	7.33	8.43	0.0167	0.0142	EEGA1J223CKE
560000	3.000 x 5.625	32.33	37.18	0.0036	0.0030	EEGA1E564HPE	2.000 x 2.625	8.07	9.28	0.0201	0.0171	EEGA1J223FEE	
910000	3.000 x 8.625	39.28	45.17	0.0032	0.0028	EEGA1E914HWE	24000	1.375 x 4.625	7.91	9.10	0.0154	0.0130	EEGA1J243CLE
<b>35 VDC Working, 44 VDC Surge</b>							27000	1.375 x 5.125	8.59	9.88	0.0164	0.0139	EEGA1J273CNE
15000	1.375 x 1.625	4.12	4.74	0.0344	0.0292	EEGA1V153CAE	33000	1.375 x 5.625	9.62	11.06	0.0134	0.0114	EEGA1J333CPE
18000	1.375 x 2.125	4.73	5.44	0.0289	0.0246	EEGA1V183CCE	2.000 x 3.125	9.97	11.47	0.0134	0.0114	EEGA1J333FGE	
22000	1.375 x 2.625	5.53	6.36	0.0239	0.0203	EEGA1V223CEE	39000	2.000 x 3.625	11.07	12.73	0.0116	0.0099	EEGA1J393FHE
33000	1.375 x 3.125	6.99	8.04	0.0164	0.0140	EEGA1V333CGE	47000	2.000 x 4.125	12.29	14.13	0.0100	0.0085	EEGA1J473FKE
	2.000 x 1.875	7.70	8.86	0.0164	0.0140	EEGA1V333FBE	56000	2.000 x 5.125	13.94	16.03	0.0087	0.0074	EEGA1J563FNE
39000	1.375 x 3.625	7.87	9.05	0.0141	0.0120	EEGA1V393CHE	2.500 x 3.125	14.06	16.17	0.0087	0.0074	EEGA1J563GGE	
47000	1.375 x 4.125	8.86	10.19	0.0120	0.0102	EEGA1V473CKE	68000	2.000 x 5.625	15.33	17.63	0.0075	0.0063	EEGA1J683FPE
	2.000 x 2.125	9.16	10.53	0.0120	0.0102	EEGA1V473FCE	2.500 x 3.625	15.57	17.91	0.0075	0.0063	EEGA1J683GHE	
56000	1.375 x 4.625	9.91	11.40	0.0103	0.0088	EEGA1V563CLE	82000	2.500 x 4.125	17.04	19.60	0.0065	0.0055	EEGA1J823GKE
	2.000 x 2.625	10.39	11.95	0.0103	0.0088	EEGA1V563FEE	3.000 x 3.125	17.96	20.65	0.0065	0.0055	EEGA1J823HGE	
62000	1.375 x 5.125	10.68	12.28	0.0094	0.0080	EEGA1V623CNE	100000	2.500 x 4.625	18.65	21.45	0.0057	0.0048	EEGA1J104GLE
68000	1.375 x 5.625	11.43	13.14	0.0087	0.0074	EEGA1V683CPE	3.000 x 3.625	19.68	22.63	0.0057	0.0048	EEGA1J104HHE	
	2.000 x 3.125	11.73	13.49	0.0087	0.0074	EEGA1V683FGE	110000	2.500 x 5.125	19.68	22.63	0.0053	0.0045	EEGA1J114GNE
82000	2.000 x 3.625	13.12	15.09	0.0075	0.0064	EEGA1V823FHE	120000	2.500 x 5.625	20.67	23.77	0.0050	0.0043	EEGA1J124GPE
100000	2.000 x 4.125	14.61	16.80	0.0064	0.0055	EEGA1V104FKE	3.000 x 4.125	21.27	24.46	0.0050	0.0043	EEGA1J124HKE	
120000	2.000 x 5.125	16.60	19.09	0.0056	0.0048	EEGA1V124FNE	130000	3.000 x 4.625	22.33	25.68	0.0048	0.0041	EEGA1J134HLE
	2.500 x 3.125	16.78	19.30	0.0056	0.0048	EEGA1V124GGE	150000	3.000 x 5.125	23.71	27.27	0.0044	0.0037	EEGA1J154HNE
150000	2.000 x 5.625	18.40	21.16	0.0048	0.0041	EEGA1V154FPE	180000	3.000 x 5.625	25.31	29.11	0.0040	0.0034	EEGA1J184HPE
	2.500 x 3.625	18.72	21.53	0.0048	0.0041	EEGA1V154GHE	270000	3.000 x 8.625	31.09	35.75	0.0033	0.0028	EEGA1J274HWE
180000	2.500 x 4.125	20.42	23.48	0.0042	0.0036	EEGA1V184GKE	<b>80 VDC Working, 100 VDC Surge</b>						
	3.000 x 3.125	21.56	24.79	0.0042	0.0036	EEGA1V184HGE	3900	1.375 x 1.625	2.83	3.25	0.0945	0.0756	EEGA1K392CAE
200000	2.500 x 4.625	21.71	24.97	0.0040	0.0034	EEGA1V204GLE	5600	1.375 x 2.125	3.56	4.09	0.0658	0.0526	EEGA1K562CCE
220000	2.500 x 5.125	22.91	26.35	0.0037	0.0032	EEGA1V224GNE	6800	1.375 x 2.625	4.17	4.80	0.0542	0.0433	EEGA1K682CEE
	3.000 x 3.625	23.57	27.11	0.0037	0.0032	EEGA1V224HHE	10000	1.375 x 3.125	5.26	6.05	0.0368	0.0295	EEGA1K103CGE
250000	3.000 x 4.125	25.07	28.83	0.0035	0.0029	EEGA1V254HKE	2.000 x 1.875	6.04	6.95	0.0368	0.0295	EEGA1K103FBE	
270000	2.500 x 5.625	24.81	28.53	0.0033	0.0028	EEGA1V274GPE	12000	1.375 x 3.625	5.99	6.89	0.0307	0.0246	EEGA1K123CHE
	3.000 x 4.625	26.29	30.23	0.0033	0.0028	EEGA1V274HLE	2.000 x 2.125	6.71	7.72	0.0307	0.0246	EEGA1K123FCE	
330000	3.000 x 5.125	28.27	32.51	0.0030	0.0025	EEGA1V334HNE	13000	1.375 x 4.125	6.46	7.43	0.0283	0.0227	EEGA1K133CKE
360000	3.000 x 5.625	29.50	33.93	0.0029	0.0024	EEGA1V364HPE	15000	1.375 x 4.625	7.17	8.25	0.0246	0.0196	EEGA1K153CLE
560000	3.000 x 8.625	36.46	41.93	0.0024	0.0020	EEGA1V564HWE	2.000 x 2.625	7.84	9.02	0.0246	0.0196	EEGA1K153FEE	
<b>50 VDC Working, 63 VDC Surge</b>							18000	1.375 x 5.125	8.05	9.26	0.0205	0.0164	EEGA1K183CNE
8200	1.375 x 1.625	3.36	3.86	0.0539	0.0458	EEGA1H822CAE	22000	1.375 x 5.625	9.08	10.44	0.0167	0.0134	EEGA1K223CPE
10000	1.375 x 2.125	3.86	4.44	0.0442	0.0376	EEGA1H103CCE	2.000 x 3.125	9.72	11.18	0.0167	0.0134	EEGA1K223FGE	
15000	1.375 x 2.625	4.97	5.72	0.0295	0.0251	EEGA1H153CEE	27000	2.000 x 3.625	11.05	12.71	0.0136	0.0109	EEGA1K273FHE
18000	1.375 x 3.125	5.68	6.53	0.0246	0.0209	EEGA1H183CGE	33000	2.000 x 4.125	12.44	14.31	0.0112	0.0089	EEGA1K333FKE
22000	1.375 x 3.625	6.50	7.48	0.0201	0.0171	EEGA1H223CHE	39000	2.000 x 5.125	14.18	16.31	0.0102	0.0082	EEGA1K393FNE
	2.000 x 1.875	6.96	8.00	0.0201	0.0171	EEGA1H223FBE	2.500 x 3.125	13.65	15.70	0.0132	0.0106	EEGA1K393GGE	
27000	1.375 x 4.125	7.38	8.49	0.0164	0.0139	EEGA1H273CKE	47000	2.000 x 5.625	15.71	18.07	0.0091	0.0073	EEGA1K473FPE
	2.000 x 2.125	7.76	8.92	0.0164	0.0139	EEGA1H273FCE	2.500 x 3.625	15.22	17.50	0.0110	0.0088	EEGA1K473GHE	
33000	1.375 x 4.625	8.36	9.61	0.0134	0.0114	EEGA1H333CLE	51000	2.500 x 4.125	16.19	18.62	0.0101	0.0081	EEGA1K513GKE
	2.000 x 2.625	8.92	10.26	0.0134	0.0114	EEGA1H333FEE	56000	2.500 x 4.625	17.29	19.88	0.0092	0.0074	EEGA1K563GLE
36000	1.375 x 5.125	8.96	10.30	0.0125	0.0106	EEGA1H363CNE	3.000 x 3.125	17.58	20.22	0.0105	0.0084	EEGA1K563HGE	
39000	1.375 x 5.625	9.55	10.98	0.0117	0.0099	EEGA1H393CPE	68000	2.500 x 5.125	19.07	21.93	0.0080	0.0064	EEGA1K683GNE
	2.000 x 3.125	9.97	11.47	0.0117	0.0099	EEGA1H393FGE	3.000 x 3.625	19.48	22.40	0.0087	0.0069	EEGA1K683HHE	
47000	2.000 x 3.625	11.17	12.85	0.0101	0.0086	EEGA1H473FHE	75000	3.000 x 4.125	20.71	23.82	0.0079	0.0063	EEGA1K753HKE
56000	2.000 x 4.125	12.36	14.21	0.0088	0.0075	EEGA1H563FKE	82000	2.500 x 5.625	20.87	24.00	0.0066	0.0053	EEGA1K823GPE
68000	2.000 x 5.125	14.15	16.27	0.0077	0.0065	EEGA1H683FNE	3.000 x 4.625	21.95	25.24	0.0072	0.0058	EEGA1K823HLE	
	2.500 x 3.125	14.27	16.41	0.0077	0.0065	EEGA1H683GGE	100000	3.000 x 5.125	24.00	27.60	0.0059	0.0047	EEGA1K104HNE
82000	2.000 x 5.625	15.54	17.87	0.0067	0.0057	EEGA1H823FPE	110000	3.000 x 5.625	25.30	29.10	0.0060	0.0048	EEGA1K114HPE
	2.500 x 3.625	15.78	18.15	0.0067	0.0057	EEGA1H823GHE	180000	3.000 x 8.625	32.90	37.84	0.0041	0.0033	EEGA1K184HWE
100000	2.500 x 4.125	17.37	19.98	0.0059	0.0051	EEGA1H104GKE	<b>100 VDC Working, 125 VDC Surge</b>						
	3.000 x 3.125	18.31	21.06	0.0059	0.0051	EEGA1H104HGE	2700	1.375 x 1.625	2.22	2.55	0.1092	0.0873	EEGA2A272CAE
120000	2.500 x 4.625	18.96	21.80	0.0053	0.0045	EEGA1H124GLE	3300						

## G-AA Typical Ratings (continued)

Cap. ( $\mu$ F)	Nominal Size D x L (inches)	Max 85°C R.C. ( $A_{rms}$ )		20°C ESR ( $\Omega$ , max.)		Panasonic Part Number	Cap. ( $\mu$ F)	Nominal Size D x L (inches)	Max 85°C R.C. ( $A_{rms}$ )		20°C ESR ( $\Omega$ , max.)		Panasonic Part Number
		120Hz	10kHz~	120Hz	20kHz				120Hz	10kHz~	120Hz	20kHz	
<b>100 VDC Working, 125 VDC Surge (continued)</b>							<b>250 VDC Working, 300 VDC Surge (continued)</b>						
5600	1.375 x 3.125	3.74	4.30	0.0526	0.0421	EEGA2A562CGE	4700	2.000 x 4.125	10.41	14.57	0.047	0.035	EEGA2E472FKE
6800	1.375 x 3.625	4.29	4.93	0.0433	0.0347	EEGA2A682CHE	5600	2.500 x 3.125	12.00	16.80	0.039	0.030	EEGA2E562GGE
	2.000 x 1.875	4.72	5.43	0.0433	0.0347	EEGA2A682FBE	6800	2.000 x 5.125	13.04	18.26	0.033	0.024	EEGA2E682FNE
8200	1.375 x 4.125	4.88	5.61	0.0359	0.0288	EEGA2A822CKE	8200	2.500 x 3.625	13.52	18.93	0.033	0.024	EEGA2E682GHE
	2.000 x 2.125	5.27	6.06	0.0359	0.0288	EEGA2A822FCE		2.000 x 5.625	14.52	20.33	0.027	0.020	EEGA2E822FPE
10000	1.375 x 4.625	5.58	6.42	0.0295	0.0236	EEGA2A103CLE	10000	2.500 x 4.125	15.08	21.11	0.027	0.020	EEGA2E822GKE
	2.000 x 2.625	6.11	7.03	0.0295	0.0236	EEGA2A103FEE		3.000 x 3.125	15.81	22.13	0.027	0.020	EEGA2E822HGE
12000	1.375 x 5.125	6.29	7.23	0.0246	0.0196	EEGA2A123CNE	12000	2.500 x 4.625	16.88	23.63	0.022	0.017	EEGA2E103GLE
13000	1.375 x 5.625	6.74	7.75	0.0227	0.0181	EEGA2A133CPE		3.000 x 3.625	17.70	24.78	0.022	0.017	EEGA2E103HHE
15000	2.000 x 3.125	7.72	8.88	0.0196	0.0157	EEGA2A153FGE	12000	2.500 x 5.125	18.64	26.10	0.018	0.014	EEGA2E123GNE
18000	2.000 x 3.625	8.73	10.04	0.0164	0.0131	EEGA2A183FHE		3.000 x 4.125	19.56	27.38	0.018	0.014	EEGA2E123HKE
22000	2.000 x 4.125	9.90	11.39	0.0134	0.0107	EEGA2A223FKE	13000	2.500 x 5.625	19.71	27.59	0.017	0.013	EEGA2E133GPE
	2.500 x 3.125	10.95	12.59	0.0167	0.0134	EEGA2A223GGE	15000	3.000 x 4.625	21.89	30.65	0.015	0.011	EEGA2E153HLE
27000	2.000 x 5.125	11.56	13.29	0.0109	0.0087	EEGA2A273FNE	17000	3.000 x 5.125	23.48	32.87	0.013	0.010	EEGA2E173HNE
	2.500 x 3.625	12.43	14.29	0.0136	0.0109	EEGA2A273GHE	18000	3.000 x 6.625	24.52	34.33	0.012	0.009	EEGA2E183HPE
33000	2.000 x 5.625	12.98	14.93	0.0098	0.0079	EEGA2A333FPE	27000	3.000 x 8.625	31.85	44.59	0.010	0.007	EEGA2E273HWE
	2.500 x 4.125	14.00	16.10	0.0112	0.0089	EEGA2A333GKE		<b>350 VDC Working, 400 VDC Surge</b>					
	3.000 x 3.125	15.18	17.46	0.0156	0.0125	EEGA2A333HGE	330	1.375 x 1.625	1.71	2.39	0.536	0.402	EEGA2V331CAE
39000	2.500 x 4.625	15.51	17.84	0.0094	0.0076	EEGA2A393GLE	470	1.375 x 2.125	2.15	3.01	0.376	0.282	EEGA2V471CCE
	3.000 x 3.625	16.83	19.35	0.0132	0.0106	EEGA2A393HHE	560	1.375 x 2.625	2.49	3.49	0.316	0.237	EEGA2V561CEE
44000	2.500 x 5.125	16.76	19.27	0.0084	0.0067	EEGA2A443GNE	680	1.375 x 3.125	2.89	4.05	0.260	0.195	EEGA2V681CGE
47000	2.500 x 5.625	17.66	20.31	0.0078	0.0063	EEGA2A473GPE	820	1.375 x 3.625	3.31	4.63	0.216	0.162	EEGA2V821CHE
	3.000 x 4.125	18.71	21.52	0.0110	0.0088	EEGA2A473HKE	1000	1.375 x 4.125	3.80	5.32	0.177	0.133	EEGA2V102CKE
56000	3.000 x 4.625	20.66	23.76	0.0092	0.0074	EEGA2A563HLE	1200	2.000 x 2.125	4.10	5.74	0.177	0.133	EEGA2V102FCE
62000	3.000 x 5.125	22.05	25.36	0.0083	0.0067	EEGA2A623HNE		1.375 x 4.625	4.33	6.06	0.147	0.111	EEGA2V122CLE
72000	3.000 x 5.625	23.91	27.50	0.0072	0.0057	EEGA2A723HPE	2.000 x 2.625	4.73	6.62	0.147	0.111	EEGA2V122FEE	
120000	3.000 x 8.625	32.58	37.47	0.0049	0.0039	EEGA2A124HWE	1500	1.375 x 5.125	5.00	7.00	0.118	0.088	EEGA2V152CNE
<b>200 VDC Working, 250 VDC Surge</b>							1800	1.375 x 5.625	5.64	7.90	0.098	0.074	EEGA2V182CPE
820	1.375 x 1.625	2.69	3.77	0.270	0.202	EEGA2D821CAE	2000 x 3.125	6.04	8.46	0.098	0.074	EEGA2V182FGE	
1200	1.375 x 2.125	3.41	4.77	0.184	0.138	EEGA2D122CCE	2200	2.000 x 3.625	6.94	9.72	0.080	0.060	EEGA2V222FHE
1500	1.375 x 2.625	4.05	5.67	0.147	0.111	EEGA2D152CEE	2700	2.000 x 4.125	7.95	11.13	0.065	0.049	EEGA2V272FKE
1800	1.375 x 3.125	4.65	6.51	0.123	0.092	EEGA2D182CGE	2.500 x 3.125	8.50	11.90	0.065	0.049	EEGA2V272GGE	
	2.000 x 1.875	5.16	7.22	0.123	0.092	EEGA2D182FBE	3300	2.000 x 5.125	9.35	13.09	0.054	0.040	EEGA2V332FNE
2200	1.375 x 3.625	5.35	7.49	0.100	0.075	EEGA2D222CHE	2.500 x 3.625	9.72	13.61	0.054	0.040	EEGA2V332GHE	
2700	1.375 x 4.125	6.12	8.57	0.082	0.061	EEGA2D272CKE	3900	2.000 x 5.625	10.45	14.63	0.045	0.034	EEGA2V392FPE
	2.000 x 2.125	6.38	8.93	0.082	0.061	EEGA2D272FCE	2.500 x 4.125	10.89	15.25	0.045	0.034	EEGA2V392GKE	
3300	1.375 x 4.625	6.98	9.77	0.067	0.050	EEGA2D332CLE	4700	2.500 x 4.625	12.32	17.25	0.038	0.028	EEGA2V472GLE
	2.000 x 2.625	7.38	10.33	0.067	0.050	EEGA2D332FEE	3.000 x 3.125	12.96	18.14	0.038	0.028	EEGA2V472HGE	
3900	1.375 x 5.125	7.80	10.92	0.057	0.043	EEGA2D392CNE	5600	2.500 x 5.125	13.81	19.33	0.032	0.024	EEGA2V562GNE
	2.000 x 3.125	8.32	11.65	0.057	0.043	EEGA2D392FNE	3.000 x 3.625	14.60	20.44	0.032	0.024	EEGA2V562HHE	
4700	1.375 x 5.625	8.75	12.25	0.047	0.035	EEGA2D472CPE	6200	2.500 x 5.625	14.89	20.85	0.029	0.021	EEGA2V622GPE
5600	2.000 x 3.625	10.18	14.25	0.039	0.030	EEGA2D562FHE	3.000 x 4.125	15.78	22.09	0.029	0.021	EEGA2V622HKE	
	2.500 x 3.125	11.64	16.30	0.039	0.030	EEGA2D562GGE	6800	3.000 x 4.625	16.98	23.77	0.026	0.020	EEGA2V682HLE
6200	2.000 x 4.125	11.00	15.40	0.036	0.027	EEGA2D622FKE	8200	3.000 x 5.125	19.11	26.75	0.022	0.016	EEGA2V822HNE
8200	2.000 x 5.125	13.21	18.49	0.027	0.020	EEGA2D822FNE	9100	3.000 x 5.625	20.60	28.84	0.019	0.015	EEGA2V912HPE
	2.500 x 3.625	14.21	19.89	0.027	0.020	EEGA2D822GHE	15000	3.000 x 8.625	30.03	42.04	0.012	0.009	EEGA2V153HWE
10000	2.000 x 5.625	14.74	20.64	0.022	0.017	EEGA2D103FPE	<b>400 VDC Working, 450 VDC Surge</b>						
	2.500 x 4.125	15.89	22.25	0.022	0.017	EEGA2D103GKE	270	1.375 x 1.625	1.74	2.44	0.655	0.458	EEGA2G271CAE
	3.000 x 3.125	16.69	23.37	0.022	0.017	EEGA2D103HGE	390	1.375 x 2.125	2.21	3.09	0.453	0.317	EEGA2G391CCE
12000	2.500 x 4.625	17.62	24.67	0.018	0.014	EEGA2D123GLE	470	1.375 x 2.625	2.58	3.61	0.376	0.263	EEGA2G471CEE
	3.000 x 3.625	18.52	25.93	0.018	0.014	EEGA2D123HHE	560	1.375 x 3.125	2.96	4.14	0.316	0.221	EEGA2G561CGE
15000	2.500 x 5.125	19.71	27.59	0.015	0.011	EEGA2D153GNE	680	1.375 x 3.625	3.41	4.77	0.260	0.182	EEGA2G681CHE
	3.000 x 4.125	20.73	29.02	0.015	0.011	EEGA2D153HKE	820	2.000 x 1.875	3.58	5.01	0.260	0.182	EEGA2G681FBE
17000	2.500 x 5.625	21.17	29.64	0.013	0.010	EEGA2D173GPE	820	1.375 x 4.125	3.88	5.43	0.216	0.151	EEGA2G821CKE
18000	3.000 x 4.625	22.78	31.89	0.012	0.009	EEGA2D183HLE		2.000 x 2.125	4.01	5.61	0.216	0.151	EEGA2G821FCE
21000	3.000 x 5.125	24.62	34.47	0.011	0.008	EEGA2D213HNE	1000	1.375 x 4.625	4.46	6.24	0.177	0.124	EEGA2G102CLE
22000	3.000 x 5.625	25.59	35.83	0.010	0.008	EEGA2D223HPE	2.000 x 2.625	4.67	6.54	0.177	0.124	EEGA2G102FEE	
37000	3.000 x 8.625	34.04	47.66	0.008	0.006	EEGA2D373HWE	1200	1.375 x 5.125	5.04	7.06	0.147	0.103	EEGA2G122CNE
<b>250 VDC Working, 300 VDC Surge</b>							1300	1.375 x 5.625	5.41	7.57	0.136	0.095	EEGA2G132CPE
560	1.375 x 1.625	2.40	3.36	0.395	0.296	EEGA2E561CAE	1500	2.000 x 3.125	5.96	8.34	0.118	0.083	EEGA2G152FGE
820	1.375 x 2.125	3.05	4.27	0.270	0.202	EEGA2E821CCE	1800	2.000 x 3.625	6.78	9.49	0.098	0.069	EEGA2G182FHE
1200	1.375 x 2.625	3.92	5.49	0.184	0.138	EEGA2E122CEE	2200	2.000 x 4.125	7.75	10.85	0.080	0.056	EEGA2G222FKE
1500	1.375 x 3.125	4.58	6.41	0.147	0.111	EEGA2E152CGE	2.500 x 3.125	8.24	11.54	0.080	0.056	EEGA2G222GGE	
	2.000 x 1.875	5.06	7.08	0.147	0.111	EEGA2E152FBE	2700	2.000 x 5.125	9.14	12.80	0.065	0.046	EEGA2G272FNE
1800	1.375 x 3.625	5.23	7.32	0.123	0.092	EEGA2E182CHE	2.500 x 3.625	9.45	13.23	0.065	0.046	EEGA2G272GHE	
	2.000 x 2.125	5.63	7.88	0.123	0.092	EEGA2E182FCE	3300	2.000 x 5.625	10.38	14.53	0.054	0.038	EEGA2G332FPE
2200	1.375 x 4.125	5.98	8.37	0.100	0.075	EEGA2E222CKE	2.500 x 4.125	10.76	15.06	0.054	0.038	EEGA2G332GKE	
	2.000 x 2.625	6.53	9.14	0.100	0.075	EEGA2E222FEE	3900	2.500 x 4.625	12.05	16.87	0.045	0.032	EEGA2G392GLE
2500	1.375 x 4.625	6.60	9.24	0.088	0.066	EEGA2E252CLE	3.000 x 3.125	12.22	17.11	0.045	0.032	EEGA2G392HGE	
2700	1.375 x 5.125	7.07	9.90	0.082	0.061	EEGA2E272CNE	4300	3.000 x 3.625	13.24	18.54	0.041	0.029	EEGA2G432HHE
3300	1.375 x 5.625	8.01	11.21	0.067	0.050	EEGA2E332CPE	4700	2.500 x 5.125	13.59	19.03	0.038	0.026	EEGA2G472GNE
	2.000 x 3.125	8.24	11.54	0.067	0.050	EEGA2E332FPE	3.000 x 4.125	14.22	19.91	0.038	0.026	EEGA2G472HKE	
3900	2.000 x 3.625	9.25	12.95	0.057	0.043	EEGA2E392FHE							

### G-AA Typical Ratings (continued)

Cap. ( $\mu$ F)	Nominal Size D x L (inches)	Max 85°C R.C. ( $A_{rms}$ )		20°C ESR ( $\Omega$ , max.)		Panasonic Part Number
		120Hz	10kHz~	120Hz	20kHz	
<b>400 VDC Working, 450 VDC Surge (continued)</b>						
5100	2.500 x 5.625	14.51	20.31	0.035	0.024	EEGA2G512GPE
5600	3.000 x 4.625	15.95	22.33	0.032	0.022	EEGA2G562HLE
6800	3.000 x 5.125	18.01	25.21	0.026	0.018	EEGA2G682HNE
7500	3.000 x 5.625	19.36	27.10	0.024	0.017	EEGA2G752HPE
12000	3.000 x 8.625	27.80	38.92	0.015	0.010	EEGA2G123HWE
<b>450 VDC Working, 500 VDC Surge</b>						
220	1.375 x 1.625	1.57	2.20	0.804	0.522	EEGA2W221CAE
270	1.375 x 2.125	1.83	2.56	0.655	0.426	EEGA2W271CCE
390	1.375 x 2.625	2.35	3.29	0.453	0.295	EEGA2W391CEE
470	1.375 x 3.125	2.71	3.79	0.376	0.245	EEGA2W471CGE
560	1.375 x 3.625	3.09	4.33	0.316	0.205	EEGA2W561CHE
	2.000 x 1.875	3.25	4.55	0.316	0.205	EEGA2W561FBE
680	1.375 x 4.125	3.54	4.96	0.260	0.169	EEGA2W681CKE
	2.000 x 2.125	3.65	5.11	0.260	0.169	EEGA2W681FCE
820	1.375 x 4.625	4.03	5.64	0.216	0.140	EEGA2W821CLE
	2.000 x 2.625	4.23	5.92	0.216	0.140	EEGA2W821FEE
1000	1.375 x 5.125	4.60	6.44	0.177	0.115	EEGA2W102CNE
	2.000 x 3.125	4.87	6.82	0.177	0.115	EEGA2W102FGE
1100	1.375 x 5.625	4.98	6.97	0.161	0.104	EEGA2W112CPE
1200	2.000 x 3.625	5.54	7.76	0.147	0.096	EEGA2W122FHE
1500	2.000 x 4.125	6.40	8.96	0.118	0.077	EEGA2W152FKE
1800	2.500 x 3.125	7.45	10.43	0.098	0.064	EEGA2W182GGE
2200	2.000 x 5.125	8.25	11.55	0.080	0.052	EEGA2W222FNE
	2.500 x 3.625	8.53	11.94	0.080	0.052	EEGA2W222GHE
2700	2.000 x 5.625	9.39	13.15	0.065	0.043	EEGA2W272FPE
	2.500 x 4.125	9.73	13.62	0.065	0.043	EEGA2W272GKE
	3.000 x 3.125	10.17	14.24	0.065	0.043	EEGA2W272HGE
3300	2.500 x 4.625	11.09	15.53	0.054	0.035	EEGA2W332GLE
	3.000 x 3.625	11.60	16.24	0.054	0.035	EEGA2W332HHE
3600	2.500 x 5.125	11.89	16.65	0.049	0.032	EEGA2W362GNE
3900	2.500 x 5.625	12.69	17.77	0.045	0.029	EEGA2W392GPE
	3.000 x 4.125	12.95	18.13	0.045	0.029	EEGA2W392HKE
4700	3.000 x 4.625	14.62	20.47	0.038	0.024	EEGA2W472HLE
5600	3.000 x 5.125	16.34	22.88	0.032	0.021	EEGA2W562HNE
6200	3.000 x 5.625	17.60	24.64	0.029	0.019	EEGA2W622HPE
10000	3.000 x 8.625	25.38	35.53	0.018	0.011	EEGA2W103HWE
<b>500 VDC Working, 550 VDC Surge</b>						
150	1.375 x 1.625	1.24	1.74	1.375	0.963	EEGA2H151CAE
180	1.375 x 2.125	1.43	2.00	1.146	0.802	EEGA2H181CCE
220	1.375 x 2.625	1.69	2.37	0.938	0.656	EEGA2H221CEE
330	1.375 x 3.125	2.17	3.04	0.625	0.438	EEGA2H331CGE
390	1.375 x 3.625	2.47	3.46	0.529	0.370	EEGA2H391CHE
	2.000 x 1.875	2.71	3.79	0.529	0.370	EEGA2H391FBE
470	1.375 x 4.125	2.81	3.93	0.439	0.307	EEGA2H471CKE
	2.000 x 2.125	3.03	4.24	0.439	0.307	EEGA2H471FCE
560	1.375 x 4.625	3.18	4.45	0.368	0.258	EEGA2H561CLE
	2.000 x 2.625	3.48	4.87	0.368	0.258	EEGA2H561FEE
680	1.375 x 5.125	3.62	5.07	0.303	0.212	EEGA2H681CNE
750	1.375 x 5.625	3.92	5.49	0.275	0.193	EEGA2H751CPE
820	2.000 x 3.125	4.39	6.15	0.252	0.176	EEGA2H821FGE
1000	2.000 x 3.625	5.03	7.04	0.206	0.144	EEGA2H102FHE
1200	2.000 x 4.125	6.35	8.89	0.172	0.120	EEGA2H122FKE
	2.500 x 3.125	6.29	8.81	0.172	0.120	EEGA2H122GGE
1500	2.000 x 5.125	6.76	9.46	0.138	0.096	EEGA2H152FNE
	2.500 x 3.625	7.27	10.18	0.138	0.096	EEGA2H152GHE
1800	2.000 x 5.625	7.59	10.63	0.115	0.080	EEGA2H182FPE
	2.500 x 4.125	8.18	11.45	0.115	0.080	EEGA2H182GKE
2000	3.000 x 3.125	8.91	12.47	0.103	0.072	EEGA2H202HGE
2200	2.500 x 4.625	9.30	13.02	0.094	0.066	EEGA2H222GLE
2400	2.500 x 5.125	9.96	13.94	0.086	0.060	EEGA2H242GNE
	3.000 x 3.625	10.04	14.06	0.086	0.060	EEGA2H242HHE
2700	2.500 x 5.625	10.82	15.15	0.076	0.053	EEGA2H272GPE
	3.000 x 4.125	10.92	15.29	0.076	0.053	EEGA2H272HKE
3300	3.000 x 4.625	12.37	17.32	0.063	0.044	EEGA2H332HLE
3600	3.000 x 5.125	13.21	18.49	0.057	0.040	EEGA2H362HNE
3900	3.000 x 5.625	14.05	19.67	0.053	0.037	EEGA2H392HPE
6800	3.000 x 8.625	20.71	28.99	0.030	0.021	EEGA2H682HWE