TS-UP Series two terminal snap-in

- Compact size for general purpose and industrial applications
- ***NEW:*** 500 WV ratings, 40mm diameter sizes, extended capacitance ratings
- Wide range of case sizes including 20mm lengths for low profile applications
- Can vent construction

Rated Working Voltage:	16 ~ 250 VDC	350 ~ 500 VDC
Operating Temperature:	-40 ~ +85ºC	-25 ~ +85ºC
Nominal Capacitance:	120 ~ 68000µF (±20% tolerance)	33 ~ 680µF (±20% tolerance)
Dissipation Factor: (120 Hz, +20ºC)		

Working Voltage [V]:	16	25	35	50	63	80	100	160 ~ 500
Max. D.F. (%):	50	40	35	30	25	20	20	15

For capacitance values > 33000µF, add the value of: $\frac{(\text{rated cap. [µF]} - 33000)}{1000}$

Endurance:	3000 hours* at +85ºC with maximum specified ripple current (see page 4) *2000 hours for 20mm diameter or 20mm length sizes

Part Number System

E C □ □ — Common Code/ Terminal Type
□ □ — Voltage Code
P — Series
□ □ □ — Capacitance Code
□ — Case Diameter
□ — Suffix, Top Vinyl Plate

ECOS	6.3mm Length Terminal (Standard)
ECEC	4.0mm Length "Short" Terminal
(See page 7)	

A	20mm
B	22mm
C	25mm
D	30mm
E	35mm
F	40mm

25 ~ 50mm lengths	
A	With Plate
B	Without plate
20mm length	
L	With Plate
G	Without plate
Extended Capacitance Ratings	
X	With plate

Ripple Current Multipliers: Page 7

TS-UP Standard Ratings

Cap. (µF)	Size (mm) D x L	Max 85°C R.C. (A_{rms}) 120Hz	Max 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
16 VDC Working, 20 VDC Surge						
6800	20 x 25	3.15	3.62	0.098	0.083	**ECOS1CP682AA**
8200	20 x 30	3.47	3.99	0.081	0.069	**ECOS1CP822AA**
10000	20 x 35	3.78	4.35	0.066	0.056	**ECOS1CP103AA**
12000	20 x 35	4.52	5.20	0.062	0.053	**ECOS1CP123AA**
15000	20 x 40	5.26	6.05	0.053	0.045	**ECOS1CP153AA**
4700	22 x 20	1.60	1.84	0.159	0.135	**ECOS1CP472BL**
4700	22 x 25	1.77	2.04	0.159	0.135	**ECOS1CP472BA**
6800	22 x 25	2.57	2.96	0.110	0.093	**ECOS1CP682BA**
8200	22 x 25	3.10	3.57	0.091	0.077	**ECOS1CP822BA**
10000	22 x 30	3.78	4.35	0.075	0.063	**ECOS1CP103BA**
12000	22 x 30	4.52	5.20	0.062	0.053	**ECOS1CP123BA**
15000	22 x 35	5.26	6.05	0.053	0.045	**ECOS1CP153BA**
18000	22 x 40	5.57	6.41	0.046	0.039	**ECOS1CP183BA**
22000	22 x 45	6.10	7.02	0.038	0.032	**ECOS1CP223BA**
6800	25 x 20	1.80	2.07	0.110	0.093	**ECOS1CP682CL**
10000	25 x 25	3.78	4.35	0.075	0.063	**ECOS1CP103CA**
12000	25 x 25	4.52	5.20	0.062	0.053	**ECOS1CP123CA**
15000	25 x 30	5.26	6.05	0.053	0.045	**ECOS1CP153CA**
18000	25 x 30	5.57	6.41	0.046	0.039	**ECOS1CP183CA**
22000	25 x 35	6.10	7.02	0.038	0.032	**ECOS1CP223CA**
27000	25 x 45	6.31	7.26	0.031	0.026	**ECOS1CP273CA**
33000	25 x 50	6.84	7.87	0.025	0.021	**ECOS1CP333CA**
10000	30 x 20	2.40	2.76	0.083	0.070	**ECOS1CP103DL**
22000	30 x 30	6.10	7.02	0.038	0.032	**ECOS1CP223DA**
27000	30 x 35	6.31	7.26	0.031	0.026	**ECOS1CP273DA**
33000	30 x 40	6.84	7.87	0.025	0.021	**ECOS1CP333DA**
39000	30 x 45	6.94	7.98	0.021	0.018	**ECOS1CP393DA**
47000	30 x 50	7.47	8.59	0.019	0.017	**ECOS1CP473DA**
15000	35 x 20	3.20	3.68	0.055	0.047	**ECOS1CP153EL**
33000	35 x 30	6.84	7.87	0.025	0.021	**ECOS1CP333EA**
39000	35 x 35	6.94	7.98	0.021	0.018	**ECOS1CP393EA**
47000	35 x 40	7.47	8.59	0.021	0.019	**ECOS1CP473EA**
56000	35 x 45	8.73	10.04	0.019	0.018	**ECOS1CP563EA**
68000	35 x 50	9.05	10.41	0.018	0.017	**ECOS1CP683EA**
68000	40 x 40	9.05	10.41	0.018	0.017	**ECOS1CP683FA**
82000	40 x 50	10.29	11.83	0.016	0.015	**ECOS1CP823FA**

Cap. (µF)	Size (mm) D x L	Max 85°C R.C. (A_{rms}) 120Hz	Max 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
25 VDC Working, 32 VDC Surge						
4700	20 x 25	3.05	3.51	0.113	0.090	**ECOS1EP472AA**
5600	20 x 30	3.36	3.86	0.095	0.076	**ECOS1EP562AA**
6800	20 x 35	3.47	3.99	0.078	0.062	**ECOS1EP682AA**
8200	20 x 40	3.57	4.11	0.065	0.052	**ECOS1EP822AA**
3300	22 x 20	1.60	1.84	0.176	0.141	**ECOS1EP332BL**
3300	22 x 25	1.68	1.93	0.161	0.129	**ECOS1EP332BA**
4700	22 x 25	2.39	2.75	0.113	0.090	**ECOS1EP472BA**
5600	22 x 25	2.86	3.29	0.095	0.076	**ECOS1EP562BA**
6800	22 x 30	3.47	3.99	0.078	0.062	**ECOS1EP682BA**
8200	22 x 30	3.57	4.11	0.065	0.052	**ECOS1EP822BA**
10000	22 x 35	3.78	4.35	0.058	0.046	**ECOS1EP103BA**
12000	22 x 40	4.10	4.72	0.048	0.039	**ECOS1EP123BA**
15000	22 x 50	4.63	5.32	0.039	0.031	**ECOS1EP153BA**
4700	25 x 20	1.80	2.07	0.123	0.099	**ECOS1EP472CL**
6800	25 x 25	3.47	3.99	0.078	0.062	**ECOS1EP682CA**
8200	25 x 25	3.57	4.11	0.065	0.052	**ECOS1EP822CA**
10000	25 x 30	3.78	4.35	0.058	0.046	**ECOS1EP103CA**
12000	25 x 35	4.10	4.72	0.048	0.039	**ECOS1EP123CA**
15000	25 x 40	4.63	5.32	0.039	0.031	**ECOS1EP153CA**
18000	25 x 45	5.47	6.29	0.035	0.028	**ECOS1EP183CA**
22000	25 x 50	6.10	7.02	0.029	0.023	**ECOS1EP223CA**
6800	30 x 20	2.30	2.65	0.078	0.062	**ECOS1EP682DL**
10000	30 x 25	3.78	4.35	0.058	0.046	**ECOS1EP103DA**
12000	30 x 30	4.10	4.72	0.048	0.039	**ECOS1EP123DA**
15000	30 x 30	4.63	5.32	0.039	0.031	**ECOS1EP153DA**
18000	30 x 35	5.47	6.29	0.035	0.028	**ECOS1EP183DA**
22000	30 x 40	6.10	7.02	0.029	0.023	**ECOS1EP223DA**
27000	30 x 45	6.21	7.14	0.023	0.019	**ECOS1EP273DA**
33000	30 x 50	6.84	7.87	0.020	0.017	**ECOS1EP333DA**
10000	35 x 20	2.70	3.11	0.061	0.049	**ECOS1EP103EL**
27000	35 x 35	6.21	7.14	0.025	0.020	**ECOS1EP273EA**
33000	35 x 40	6.84	7.87	0.020	0.017	**ECOS1EP333EA**
39000	35 x 45	7.36	8.46	0.019	0.017	**ECOS1EP393EA**
47000	35 x 50	8.00	9.20	0.017	0.015	**ECOS1EP473EA**
47000	40 x 40	8.00	9.20	0.017	0.015	**ECOS1EP473FA**
56000	40 x 50	8.96	10.30	0.016	0.015	**ECOS1EP563FA**

Design and specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.
Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

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TS-UP Standard Ratings (continued)

Cap. (µF)	Size (mm) D x L	Max 85°C R.C. (A_{rms}) 120Hz	Max 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
35 VDC Working, 44 VDC Surge						
3300	20 x 25	2.73	3.14	0.111	0.083	ECOS1VP332AA
3900	20 x 30	2.94	3.38	0.094	0.070	ECOS1VP392AA
4700	20 x 35	3.26	3.75	0.078	0.058	ECOS1VP472AA
5600	20 x 40	3.36	3.86	0.080	0.060	ECOS1VP562AA
2200	22 x 20	1.40	1.61	0.181	0.136	ECOS1VP222BL
2200	22 x 25	1.52	1.75	0.166	0.124	ECOS1VP222BA
3300	22 x 25	2.29	2.63	0.111	0.083	ECOS1VP332BA
3900	22 x 25	2.71	3.12	0.094	0.070	ECOS1VP392BA
4700	22 x 30	3.26	3.75	0.078	0.058	ECOS1VP472BA
5600	22 x 30	3.36	3.86	0.080	0.060	ECOS1VP562BA
6800	22 x 35	3.68	4.23	0.066	0.049	ECOS1VP682BA
8200	22 x 40	4.00	4.60	0.057	0.042	ECOS1VP822BA
10000	22 x 45	4.42	5.08	0.050	0.037	ECOS1VP103BA
3300	25 x 20	1.70	1.96	0.121	0.090	ECOS1VP332CL
4700	25 x 25	3.26	3.75	0.078	0.058	ECOS1VP472CA
5600	25 x 25	3.36	3.86	0.080	0.060	ECOS1VP562CA
6800	25 x 30	3.68	4.23	0.066	0.049	ECOS1VP682CA
8200	25 x 35	4.00	4.60	0.057	0.042	ECOS1VP822CA
10000	25 x 40	4.42	5.08	0.050	0.037	ECOS1VP103CA
12000	25 x 45	5.05	5.81	0.044	0.033	ECOS1VP123CA
15000	25 x 50	5.57	6.41	0.036	0.027	ECOS1VP153CA
4700	30 x 20	2.00	2.30	0.088	0.066	ECOS1VP472DL
10000	30 x 30	4.42	5.08	0.050	0.037	ECOS1VP103DA
12000	30 x 35	5.05	5.81	0.044	0.033	ECOS1VP123DA
15000	30 x 40	5.57	6.41	0.036	0.027	ECOS1VP153DA
18000	30 x 45	5.68	6.53	0.030	0.023	ECOS1VP183DA
22000	30 x 50	6.10	7.02	0.026	0.020	ECOS1VP223DA
6800	35 x 20	2.40	2.76	0.071	0.053	ECOS1VP682EL
10000	35 x 25	4.42	5.08	0.050	0.037	ECOS1VP103EA
12000	35 x 30	5.05	5.81	0.044	0.033	ECOS1VP123EA
15000	35 x 30	5.57	6.41	0.036	0.027	ECOS1VP153EA
18000	35 x 35	5.68	6.53	0.030	0.023	ECOS1VP183EA
22000	35 x 40	6.10	7.02	0.026	0.020	ECOS1VP223EA
27000	35 x 45	6.84	7.87	0.021	0.017	ECOS1VP273EA
33000	35 x 50	7.15	8.22	0.018	0.014	ECOS1VP333EA
27000	40 x 40	6.84	7.87	0.021	0.017	ECOS1VP273FA
39000	40 x 50	7.98	9.18	0.017	0.014	ECOS1VP393FA
63 VDC Working, 79 VDC Surge						
2200	20 x 35	2.52	2.90	0.151	0.113	ECOS1JP222AA
2700	20 x 40	3.73	4.29	0.123	0.092	ECOS1JP272AA
1000	22 x 20	1.20	1.38	0.381	0.286	ECOS1JP102BL
1000	22 x 25	1.20	1.38	0.332	0.249	ECOS1JP102BA
1500	22 x 25	1.72	1.98	0.221	0.166	ECOS1JP152BA
1800	22 x 25	2.06	2.37	0.184	0.138	ECOS1JP182BA
2200	22 x 30	2.52	2.90	0.151	0.113	ECOS1JP222BA
2700	22 x 35	3.73	4.29	0.123	0.092	ECOS1JP272BA
3300	22 x 40	4.10	4.72	0.105	0.079	ECOS1JP332BA
3900	22 x 45	4.44	5.11	0.098	0.073	ECOS1JP392BA
4700	22 x 50	4.86	5.59	0.081	0.061	ECOS1JP472BA
1500	25 x 20	1.30	1.50	0.254	0.191	ECOS1JP152CL
2200	25 x 25	2.52	2.90	0.151	0.113	ECOS1JP222CA
2700	25 x 30	3.73	4.29	0.123	0.092	ECOS1JP272CA
3300	25 x 30	4.10	4.72	0.105	0.079	ECOS1JP332CA
3900	25 x 35	4.44	5.11	0.098	0.073	ECOS1JP392CA
4700	25 x 40	4.86	5.59	0.081	0.061	ECOS1JP472CA
5600	25 x 45	5.36	6.16	0.068	0.051	ECOS1JP562CA
6800	25 x 50	5.84	6.72	0.061	0.046	ECOS1JP682CA
2200	30 x 20	1.50	1.73	0.173	0.130	ECOS1JP222DL
3300	30 x 25	4.10	4.72	0.105	0.079	ECOS1JP332DA
3900	30 x 30	4.44	5.11	0.098	0.073	ECOS1JP392DA
4700	30 x 30	4.86	5.59	0.081	0.061	ECOS1JP472DA
5600	30 x 35	5.36	6.16	0.068	0.051	ECOS1JP562DA
6800	30 x 40	5.84	6.72	0.061	0.046	ECOS1JP682DA
8200	30 x 45	6.00	6.90	0.051	0.038	ECOS1JP822DA
3300	35 x 20	1.70	1.96	0.126	0.094	ECOS1JP332EL
4700	35 x 25	4.86	5.59	0.081	0.061	ECOS1JP472EA
5600	35 x 30	5.36	6.16	0.068	0.051	ECOS1JP562EA
6800	35 x 30	5.84	6.72	0.061	0.046	ECOS1JP682EA
8200	35 x 35	6.00	6.90	0.051	0.038	ECOS1JP822EA
10000	35 x 40	6.52	7.50	0.041	0.033	ECOS1JP103EA
12000	35 x 50	7.15	8.22	0.035	0.028	ECOS1JP123EA
12000	40 x 40	7.15	8.22	0.035	0.028	ECOS1JP123FA
15000	40 x 50	7.53	8.66	0.033	0.027	ECOS1JP153FA

Cap. (µF)	Size (mm) D x L	Max 85°C R.C. (A_{rms}) 120Hz	Max 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
50 VDC Working, 63 VDC Surge						
2200	20 x 25	2.26	2.60	0.151	0.113	ECOS1HP222AA
2700	20 x 30	2.52	2.90	0.123	0.092	ECOS1HP272AA
3300	20 x 35	2.73	3.14	0.100	0.075	ECOS1HP332AA
3900	20 x 40	2.75	3.16	0.085	0.064	ECOS1HP392AA
1500	22 x 20	1.20	1.38	0.254	0.191	ECOS1HP152BL
1500	22 x 25	1.24	1.43	0.221	0.166	ECOS1HP152BA
2200	22 x 25	1.82	2.09	0.151	0.113	ECOS1HP222BA
2700	22 x 25	2.23	2.56	0.123	0.092	ECOS1HP272BA
3300	22 x 30	2.73	3.14	0.100	0.075	ECOS1HP332BA
3900	22 x 30	2.75	3.16	0.085	0.064	ECOS1HP392BA
4700	22 x 35	3.03	3.48	0.071	0.053	ECOS1HP472BA
5600	22 x 40	3.42	3.93	0.059	0.044	ECOS1HP562BA
6800	22 x 50	3.85	4.43	0.049	0.037	ECOS1HP682BA
2200	25 x 20	1.40	1.61	0.173	0.130	ECOS1HP222CL
3300	25 x 25	2.73	3.14	0.100	0.075	ECOS1HP332CA
3900	25 x 25	2.75	3.16	0.085	0.064	ECOS1HP392CA
4700	25 x 30	3.03	3.48	0.071	0.053	ECOS1HP472CA
5600	25 x 35	3.42	3.93	0.059	0.044	ECOS1HP562CA
6800	25 x 40	3.85	4.43	0.049	0.037	ECOS1HP682CA
8200	25 x 45	4.41	5.07	0.040	0.030	ECOS1HP822CA
10000	25 x 50	4.97	5.72	0.036	0.027	ECOS1HP103CA
3300	30 x 20	1.70	1.96	0.116	0.087	ECOS1HP332DL
4700	30 x 25	3.03	3.48	0.071	0.053	ECOS1HP472DA
5600	30 x 30	3.42	3.93	0.059	0.044	ECOS1HP562DA
6800	30 x 30	3.85	4.43	0.049	0.037	ECOS1HP682DA
8200	30 x 35	4.41	5.07	0.040	0.030	ECOS1HP822DA
10000	30 x 40	4.97	5.72	0.036	0.027	ECOS1HP103DA
12000	30 x 45	5.58	6.42	0.032	0.024	ECOS1HP123DA
15000	30 x 50	6.44	7.41	0.028	0.021	ECOS1HP153DA
4700	35 x 20	2.10	2.42	0.081	0.061	ECOS1HP472EL
10000	35 x 30	4.97	5.72	0.036	0.027	ECOS1HP103EA
12000	35 x 35	5.58	6.42	0.032	0.024	ECOS1HP123EA
15000	35 x 40	6.44	7.41	0.028	0.021	ECOS1HP153EA
18000	35 x 45	6.94	7.98	0.023	0.018	ECOS1HP183EA
22000	35 x 50	7.57	8.71	0.021	0.017	ECOS1HP223EA
18000	40 x 40	6.94	7.98	0.023	0.017	ECOS1HP183FA
27000	40 x 50	8.80	10.12	0.018	0.015	ECOS1HP273FA
80 VDC Working, 100 VDC Surge						
1200	20 x 30	2.08	2.39	0.221	0.166	ECOS1KP122AA
1500	20 x 35	2.26	2.60	0.177	0.133	ECOS1KP152AA
1800	20 x 40	2.52	2.90	0.147	0.111	ECOS1KP182AA
680	22 x 20	1.00	1.15	0.439	0.329	ECOS1KP681BL
680	22 x 25	1.02	1.17	0.390	0.293	ECOS1KP681BA
1000	22 x 25	1.51	1.74	0.265	0.199	ECOS1KP102BA
1200	22 x 25	1.81	2.08	0.221	0.166	ECOS1KP122BA
1500	22 x 30	2.26	2.60	0.177	0.133	ECOS1KP152BA
1800	22 x 35	2.52	2.90	0.147	0.111	ECOS1KP182BA
2200	22 x 40	2.73	3.14	0.121	0.090	ECOS1KP222BA
2700	22 x 45	2.78	3.20	0.098	0.074	ECOS1KP272BA
3300	22 x 50	3.21	3.69	0.085	0.064	ECOS1KP332BA
1000	25 x 20	1.20	1.38	0.298	0.224	ECOS1KP102CL
1500	25 x 25	2.26	2.60	0.177	0.133	ECOS1KP152CA
1800	25 x 30	2.52	2.90	0.147	0.111	ECOS1KP182CA
2200	25 x 30	2.73	3.14	0.121	0.090	ECOS1KP222CA
2700	25 x 35	2.78	3.20	0.098	0.074	ECOS1KP272CA
3300	25 x 40	3.21	3.69	0.085	0.064	ECOS1KP332CA
3900	25 x 45	3.59	4.13	0.077	0.057	ECOS1KP392CA
4700	25 x 50	4.09	4.70	0.063	0.048	ECOS1KP472CA
1500	30 x 20	1.40	1.61	0.199	0.149	ECOS1KP152DL
2200	30 x 25	2.73	3.14	0.121	0.090	ECOS1KP222DA
2700	30 x 30	2.78	3.20	0.098	0.074	ECOS1KP272DA
3300	30 x 30	3.21	3.69	0.085	0.064	ECOS1KP332DA
3900	30 x 35	3.59	4.13	0.077	0.057	ECOS1KP392DA
4700	30 x 40	4.09	4.70	0.063	0.048	ECOS1KP472DA
5600	30 x 45	4.55	5.23	0.056	0.042	ECOS1KP562DA
6800	30 x 50	5.16	5.93	0.046	0.035	ECOS1KP682DA
2200	35 x 20	1.70	1.96	0.136	0.102	ECOS1KP222EL
5600	35 x 35	4.55	5.23	0.056	0.042	ECOS1KP562EA
6800	35 x 40	5.16	5.93	0.046	0.035	ECOS1KP682EA
8200	35 x 50	5.83	6.70	0.038	0.029	ECOS1KP822EA
8200	40 x 40	5.83	6.70	0.038	0.029	ECOS1KP822FA
10000	40 x 50	6.56	7.54	0.033	0.025	ECOS1KP103FA

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TS-UP Standard Ratings (continued)

Cap. (µF)	Size (mm) D x L	Max 85°C R.C. (A_{rms}) 120Hz	Max 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
100 VDC Working, 125 VDC Surge						
560	20 x 25	1.35	1.55	0.385	0.250	ECOS2AP561AA
820	20 x 30	1.59	1.83	0.263	0.171	ECOS2AP821AA
1000	20 x 35	1.96	2.25	0.216	0.140	ECOS2AP102AA
1200	20 x 40	2.31	2.66	0.180	0.117	ECOS2AP122AA
470	22 x 20	1.00	1.15	0.459	0.298	ECOS2AP471BL
470	22 x 25	1.11	1.28	0.459	0.298	ECOS2AP471BA
560	22 x 25	1.32	1.52	0.385	0.250	ECOS2AP561BA
680	22 x 25	1.61	1.85	0.317	0.206	ECOS2AP681BA
1000	22 x 30	1.96	2.25	0.216	0.140	ECOS2AP102BA
1200	22 x 35	2.31	2.66	0.193	0.126	ECOS2AP122BA
1500	22 x 40	2.57	2.96	0.155	0.101	ECOS2AP152BA
1800	22 x 45	2.84	3.27	0.129	0.084	ECOS2AP182BA
2200	22 x 50	3.14	3.61	0.121	0.078	ECOS2AP222BA
680	25 x 20	1.10	1.27	0.366	0.238	ECOS2AP681CL
1000	25 x 25	1.96	2.25	0.216	0.140	ECOS2AP102CA
1200	25 x 30	2.31	2.66	0.180	0.117	ECOS2AP122CA
1500	25 x 30	2.57	2.96	0.155	0.101	ECOS2AP152CA
1800	25 x 35	2.84	3.27	0.138	0.090	ECOS2AP182CA
2200	25 x 40	3.14	3.61	0.121	0.078	ECOS2AP222CA
2700	25 x 45	3.71	4.27	0.104	0.068	ECOS2AP272CA
3300	25 x 50	4.06	4.67	0.090	0.059	ECOS2AP332CA
1000	30 x 20	1.20	1.38	0.249	0.162	ECOS2AP102DL
1500	30 x 25	2.57	2.96	0.155	0.101	ECOS2AP152DA
1800	30 x 30	2.84	3.27	0.138	0.090	ECOS2AP182DA
2200	30 x 30	3.14	3.61	0.121	0.078	ECOS2AP222DA
2700	30 x 35	3.71	4.27	0.104	0.068	ECOS2AP272DA
3300	30 x 40	4.06	4.67	0.090	0.059	ECOS2AP332DA
3900	30 x 45	4.54	5.22	0.077	0.050	ECOS2AP392DA
4700	30 x 50	5.13	5.90	0.071	0.049	ECOS2AP472DA
1500	35 x 20	1.50	1.73	0.177	0.115	ECOS2AP152EL
2200	35 x 25	3.14	3.61	0.121	0.078	ECOS2AP222EA
2700	35 x 30	3.71	4.27	0.104	0.068	ECOS2AP272EA
3900	35 x 35	4.54	5.22	0.081	0.052	ECOS2AP392EA
4700	35 x 40	5.13	5.90	0.071	0.049	ECOS2AP472EA
5600	35 x 45	5.75	6.61	0.059	0.041	ECOS2AP562EA
6800	35 x 50	6.60	7.59	0.049	0.037	ECOS2AP682EA
5600	40 x 40	5.75	6.61	0.059	0.044	ECOS2AP562FA
8200	40 x 50	7.28	8.37	0.040	0.030	ECOS2AP822FA
200 VDC Working, 250 VDC Surge						
270	20 x 30	1.41	1.97	0.614	0.276	ECOS2DP271AA
330	20 x 35	1.56	2.18	0.553	0.249	ECOS2DP331AA
470	20 x 40	1.85	2.59	0.388	0.175	ECOS2DP471AX
150	22 x 20	0.65	0.91	1.326	0.597	ECOS2DP151BL
150	22 x 25	0.71	0.99	1.216	0.547	ECOS2DP151BA
220	22 x 25	1.04	1.46	0.829	0.373	ECOS2DP221BA
270	22 x 25	1.41	1.97	0.614	0.276	ECOS2DP271BA
330	22 x 25	1.56	2.18	0.553	0.249	ECOS2DP331BX
390	22 x 30	1.68	2.35	0.468	0.210	ECOS2DP391BA
470	22 x 35	1.85	2.59	0.388	0.175	ECOS2DP471BA
560	22 x 40	2.43	3.40	0.326	0.147	ECOS2DP561BA
680	22 x 45	2.68	3.75	0.268	0.121	ECOS2DP681BA
220	25 x 20	0.87	1.22	0.904	0.407	ECOS2DP221CL
390	25 x 25	1.68	2.35	0.468	0.210	ECOS2DP391CA
470	25 x 30	1.85	2.59	0.388	0.175	ECOS2DP471CA
560	25 x 30	2.43	3.40	0.326	0.147	ECOS2DP561CX
680	25 x 35	2.68	3.75	0.268	0.121	ECOS2DP681CA
820	25 x 45	2.93	4.10	0.222	0.100	ECOS2DP821CA
1000	25 x 45	3.25	4.55	0.199	0.090	ECOS2DP102CX
1000	25 x 50	3.25	4.55	0.199	0.090	ECOS2DP102CA
330	30 x 20	1.00	1.40	0.603	0.271	ECOS2DP331DL
560	30 x 25	2.43	3.40	0.326	0.147	ECOS2DP561DA
680	30 x 30	2.68	3.75	0.268	0.121	ECOS2DP681DA
820	30 x 30	2.93	4.10	0.222	0.100	ECOS2DP821DX
820	30 x 35	2.93	4.10	0.222	0.100	ECOS2DP821DA
1000	30 x 35	3.25	4.55	0.199	0.090	ECOS2DP102DX

Cap. (µF)	Size (mm) D x L	Max 85°C R.C. (A_{rms}) 120Hz	Max 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
160 VDC Working, 200 VDC Surge						
330	20 x 30	1.45	2.03	0.553	0.276	ECOS2CP331AA
390	20 x 35	1.62	2.27	0.468	0.234	ECOS2CP391AA
220	22 x 20	0.75	1.05	0.980	0.490	ECOS2CP221BL
220	22 x 25	0.91	1.27	0.829	0.414	ECOS2CP221BA
270	22 x 25	1.19	1.67	0.675	0.338	ECOS2CP271BA
330	22 x 25	1.45	2.03	0.553	0.276	ECOS2CP331BA
390	22 x 25	1.62	2.27	0.468	0.234	ECOS2CP391BX
470	22 x 30	2.11	2.95	0.423	0.212	ECOS2CP471BA
560	22 x 30	2.25	3.15	0.355	0.178	ECOS2CP561BX
560	22 x 35	2.25	3.15	0.355	0.178	ECOS2CP561BA
680	22 x 35	2.50	3.50	0.293	0.146	ECOS2CP681BX
680	22 x 40	2.50	3.50	0.293	0.146	ECOS2CP681BA
820	22 x 40	2.50	3.50	0.243	0.121	ECOS2CP821BX
820	22 x 45	2.75	3.85	0.263	0.131	ECOS2CP821BA
1000	22 x 45	3.00	4.20	0.216	0.108	ECOS2CP102BX
270	25 x 20	0.87	1.22	0.798	0.399	ECOS2CP271CL
390	25 x 25	1.62	2.27	0.468	0.234	ECOS2CP391CA
470	25 x 25	2.11	2.95	0.423	0.212	ECOS2CP471CA
560	25 x 25	2.25	3.15	0.355	0.178	ECOS2CP561CX
560	25 x 30	2.25	3.15	0.355	0.178	ECOS2CP561CA
680	25 x 30	2.50	3.50	0.293	0.146	ECOS2CP681CX
820	25 x 35	2.75	3.85	0.263	0.131	ECOS2CP821CA
1000	25 x 40	3.00	4.20	0.216	0.108	ECOS2CP102CX
1000	25 x 45	3.00	4.20	0.232	0.128	ECOS2CP102CA
1200	25 x 50	3.25	4.55	0.207	0.114	ECOS2CP122CA
1500	25 x 50	3.73	5.22	0.166	0.091	ECOS2CP152CX
390	30 x 20	1.10	1.54	0.595	0.298	ECOS2CP391DL
680	30 x 25	2.50	3.50	0.293	0.146	ECOS2CP681DA
820	30 x 25	2.75	3.85	0.263	0.131	ECOS2CP821DX
820	30 x 30	2.75	3.85	0.263	0.131	ECOS2CP821DA
1000	30 x 30	3.00	4.20	0.232	0.128	ECOS2CP102DX
1000	30 x 35	3.00	4.20	0.232	0.128	ECOS2CP102DA
1200	30 x 35	3.25	4.55	0.207	0.114	ECOS2CP122DA
1500	30 x 45	3.73	5.22	0.166	0.091	ECOS2CP152DA
1800	30 x 50	4.20	5.88	0.138	0.083	ECOS2CP182DA
2200	30 x 50	4.78	6.69	0.105	0.053	ECOS2CP222DX
560	35 x 20	1.30	1.82	0.414	0.207	ECOS2CP561EL
1000	35 x 30	3.00	4.20	0.232	0.128	ECOS2CP102EA
1200	35 x 30	3.25	4.55	0.207	0.114	ECOS2CP122EA
1500	35 x 30	3.73	5.22	0.166	0.091	ECOS2CP152EX
1500	35 x 35	3.73	5.22	0.166	0.091	ECOS2CP152EA
1800	35 x 35	4.20	5.88	0.138	0.083	ECOS2CP182EX
2200	35 x 40	4.78	6.69	0.113	0.073	ECOS2CP222EX
2200	35 x 45	4.78	6.69	0.113	0.073	ECOS2CP222EA
2700	35 x 50	5.45	7.63	0.092	0.060	ECOS2CP272EA
250 VDC Working, 300 VDC Surge						
180	20 x 30	1.07	1.50	0.921	0.368	ECOS2EP181AA
220	20 x 35	1.17	1.64	0.754	0.301	ECOS2EP221AA
120	22 x 20	0.45	0.63	1.658	0.663	ECOS2EP121BL
120	22 x 25	0.71	0.99	1.520	0.608	ECOS2EP121BA
150	22 x 25	0.89	1.25	1.216	0.486	ECOS2EP151BA
180	22 x 25	1.07	1.50	0.921	0.368	ECOS2EP181BA
220	22 x 25	1.17	1.64	0.754	0.301	ECOS2EP221BX
270	22 x 30	1.31	1.83	0.614	0.246	ECOS2EP271BA
330	22 x 35	1.75	2.45	0.553	0.221	ECOS2EP331BA
390	22 x 40	1.91	2.67	0.468	0.187	ECOS2EP391BA
470	22 x 45	2.11	2.95	0.388	0.155	ECOS2EP471BA
150	25 x 20	0.65	0.91	1.326	0.531	ECOS2EP151CL
270	25 x 25	1.31	1.83	0.614	0.246	ECOS2EP271CA
330	25 x 30	1.75	2.45	0.502	0.201	ECOS2EP331CA
390	25 x 30	1.91	2.67	0.468	0.187	ECOS2EP391CX
390	25 x 35	1.91	2.67	0.468	0.187	ECOS2EP391CA
470	25 x 35	2.11	2.95	0.388	0.155	ECOS2EP471CX
470	25 x 40	2.11	2.95	0.388	0.155	ECOS2EP471CA
560	25 x 40	2.25	3.15	0.326	0.130	ECOS2EP561CX
560	25 x 45	2.25	3.15	0.326	0.130	ECOS2EP561CA
680	25 x 45	2.50	3.50	0.268	0.107	ECOS2EP681CX
680	25 x 50	2.50	3.50	0.268	0.107	ECOS2EP681CA
220	30 x 20	0.87	1.22	0.829	0.332	ECOS2EP221DL
390	30 x 25	1.91	2.67	0.425	0.170	ECOS2EP391DA
470	30 x 25	2.11	2.95	0.353	0.141	ECOS2EP471DX
470	30 x 30	2.11	2.95	0.388	0.155	ECOS2EP471DA
560	30 x 30	2.25	3.15	0.326	0.130	ECOS2EP561DX

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Whenever a doubt about safety arises from this product, please contact us immediately for technical consultation.

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TS-UP Standard Ratings (continued)

Cap. (µF)	Size (mm) D x L	Max. 85°C R.C. (A_{rms}) 120Hz	Max. 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
200 VDC Working, 250 VDC Surge (continued)						
1000	30 x 40	3.25	4.55	0.199	0.090	ECOS2DP102DA
1200	30 x 40	3.50	4.90	0.166	0.075	ECOS2DP122DX
1200	30 x 45	3.50	4.90	0.166	0.075	ECOS2DP122DA
1500	30 x 45	3.87	5.42	0.144	0.072	ECOS2DP152DX
1500	30 x 50	3.87	5.42	0.144	0.072	ECOS2DP152DA
1800	30 x 50	4.32	6.05	0.120	0.060	ECOS2DP182DX
470	35 x 20	1.30	1.82	0.459	0.206	ECOS2DP471EL
820	35 x 25	2.93	4.10	0.243	0.109	ECOS2DP821EA
1000	35 x 30	3.25	4.55	0.199	0.090	ECOS2DP102EA
1200	35 x 30	3.50	4.90	0.166	0.075	ECOS2DP122EX
1200	35 x 35	3.50	4.90	0.166	0.075	ECOS2DP122EA
1500	35 x 35	3.87	5.42	0.144	0.072	ECOS2DP152EX
1500	35 x 40	3.87	5.42	0.144	0.072	ECOS2DP152EA
1800	35 x 40	4.32	6.05	0.120	0.060	ECOS2DP182EX
1800	35 x 45	4.32	6.05	0.120	0.060	ECOS2DP182EA
2200	35 x 45	4.92	6.89	0.098	0.054	ECOS2DP222EX
2200	35 x 50	4.92	6.89	0.098	0.054	ECOS2DP222EA
2200	40 x 40	4.92	6.89	0.098	0.054	ECOS2DP222FA
2700	40 x 50	5.41	7.57	0.080	0.044	ECOS2DP272FA
350 VDC Working, 400 VDC Surge						
82	20 x 30	0.83	1.16	2.022	0.708	ECOS2VP820AA
100	20 x 35	0.91	1.27	1.658	0.580	ECOS2VP101AA
82	22 x 25	0.83	1.16	2.022	0.708	ECOS2VP820BA
100	22 x 30	0.91	1.27	1.658	0.580	ECOS2VP101BA
120	22 x 30	1.00	1.40	1.382	0.484	ECOS2VP121BA
150	22 x 35	1.12	1.57	1.105	0.387	ECOS2VP151BA
180	22 x 40	1.22	1.71	0.921	0.322	ECOS2VP181BA
220	22 x 45	1.44	2.02	0.754	0.264	ECOS2VP221BA
120	25 x 25	1.00	1.40	1.382	0.484	ECOS2VP121CA
150	25 x 25	1.12	1.57	1.105	0.387	ECOS2VP151CX
150	25 x 30	1.12	1.57	1.105	0.387	ECOS2VP151CA
180	25 x 30	1.22	1.71	0.921	0.322	ECOS2VP181CX
180	25 x 35	1.22	1.71	0.921	0.322	ECOS2VP181CA
220	25 x 35	1.44	2.02	0.754	0.264	ECOS2VP221CX
220	25 x 40	1.44	2.02	0.754	0.264	ECOS2VP221CA
270	25 x 40	1.66	2.32	0.614	0.215	ECOS2VP271CX
330	25 x 50	1.88	2.63	0.502	0.176	ECOS2VP331CA
390	25 x 50	2.06	2.88	0.425	0.149	ECOS2VP391CX
150	30 x 25	1.12	1.57	1.105	0.387	ECOS2VP151DA
180	30 x 25	1.22	1.71	0.921	0.322	ECOS2VP181DA
220	30 x 25	1.44	2.02	0.754	0.264	ECOS2VP221DX
220	30 x 30	1.44	2.02	0.754	0.264	ECOS2VP221DA
270	30 x 30	1.66	2.32	0.614	0.215	ECOS2VP271DX
270	30 x 35	1.66	2.32	0.614	0.215	ECOS2VP271DA
330	30 x 35	1.88	2.63	0.502	0.176	ECOS2VP331DX
330	30 x 40	1.88	2.63	0.502	0.176	ECOS2VP331DA
390	30 x 40	2.06	2.88	0.425	0.149	ECOS2VP391DX
390	30 x 45	2.06	2.88	0.468	0.164	ECOS2VP391DA
470	30 x 50	2.40	3.36	0.388	0.136	ECOS2VP471DA
560	30 x 50	2.60	3.64	0.326	0.114	ECOS2VP561DX
220	35 x 25	1.44	2.02	0.754	0.264	ECOS2VP221EA
270	35 x 25	1.66	2.32	0.614	0.215	ECOS2VP271EX
270	35 x 30	1.66	2.32	0.614	0.215	ECOS2VP271EA
330	35 x 30	1.88	2.63	0.502	0.176	ECOS2VP331EA
390	35 x 30	2.06	2.88	0.425	0.149	ECOS2VP391EX
390	35 x 35	2.06	2.88	0.425	0.149	ECOS2VP391EA
470	35 x 35	2.40	3.36	0.353	0.123	ECOS2VP471EX
470	35 x 40	2.40	3.36	0.353	0.123	ECOS2VP471EA
560	35 x 40	2.60	3.64	0.296	0.104	ECOS2VP561EX
560	35 x 45	2.60	3.64	0.296	0.104	ECOS2VP561EA
680	35 x 45	2.96	4.14	0.293	0.117	ECOS2VP681EX
680	35 x 50	2.96	4.14	0.293	0.117	ECOS2VP681EA
820	35 x 50	3.55	4.97	0.243	0.097	ECOS2VP821EX
680	40 x 40	2.96	4.14	0.293	0.117	ECOS2VP681FA
1000	40 x 50	3.80	5.32	0.199	0.080	ECOS2VP102FA

Cap. (µF)	Size (mm) D x L	Max. 85°C R.C. (A_{rms}) 120Hz	Max. 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
250 VDC Working, 300 VDC Surge (continued)						
560	30 x 35	2.25	3.15	0.326	0.130	ECOS2EP561DA
680	30 x 35	2.25	3.15	0.268	0.107	ECOS2EP681DX
680	30 x 40	2.50	3.50	0.268	0.107	ECOS2EP681DA
820	30 x 40	2.50	3.50	0.222	0.089	ECOS2EP821DX
820	30 x 45	2.77	3.88	0.222	0.089	ECOS2EP821DA
1000	30 x 45	3.32	4.65	0.182	0.073	ECOS2EP102DX
1000	30 x 50	3.32	4.65	0.199	0.090	ECOS2EP102DA
330	35 x 20	1.10	1.54	0.553	0.221	ECOS2EP331EL
560	35 x 25	2.25	3.15	0.326	0.130	ECOS2EP561EA
680	35 x 30	2.50	3.50	0.268	0.107	ECOS2EP681EA
820	35 x 30	2.77	3.88	0.222	0.089	ECOS2EP821EX
820	35 x 35	2.77	3.88	0.243	0.109	ECOS2EP821EA
1000	35 x 35	3.32	4.65	0.199	0.090	ECOS2EP102EX
1000	35 x 40	3.32	4.65	0.199	0.099	ECOS2EP102EA
1200	35 x 40	3.53	4.94	0.166	0.083	ECOS2EP122EX
1200	35 x 45	3.53	4.94	0.166	0.083	ECOS2EP122EA
1500	35 x 50	4.04	5.66	0.133	0.066	ECOS2EP152EA
1500	40 x 40	4.04	5.66	0.133	0.066	ECOS2EP152FA
1800	40 x 50	4.49	6.29	0.111	0.055	ECOS2EP182FA
385 VDC Working, 435 VDC Surge						
68	20 x 30	0.76	1.06	2.438	0.853	ECOS2TP680AA
82	20 x 30	0.83	1.16	2.022	0.708	ECOS2TP820AA
100	20 x 35	0.92	1.29	1.658	0.580	ECOS2TP101AA
120	20 x 40	1.02	1.43	1.382	0.553	ECOS2TP121AA
47	22 x 20	0.25	0.35	4.233	1.481	ECOS2TP470BL
68	22 x 25	0.76	1.06	2.438	0.853	ECOS2TP680BA
82	22 x 25	0.83	1.16	2.022	0.708	ECOS2TP820BA
100	22 x 30	0.92	1.29	1.658	0.580	ECOS2TP101BA
120	22 x 35	1.02	1.43	1.382	0.553	ECOS2TP121BA
150	22 x 35	1.16	1.62	1.105	0.442	ECOS2TP151BX
150	22 x 40	1.16	1.62	1.105	0.442	ECOS2TP151BA
180	22 x 40	1.44	2.02	0.921	0.368	ECOS2TP181BX
180	22 x 45	1.44	2.02	0.921	0.368	ECOS2TP181BA
220	22 x 45	1.49	2.09	0.829	0.373	ECOS2TP221BX
220	22 x 50	1.49	2.09	0.829	0.373	ECOS2TP221BA
68	25 x 20	0.35	0.49	2.926	1.024	ECOS2TP680CL
100	25 x 25	0.92	1.29	1.658	0.580	ECOS2TP101CA
120	25 x 25	1.02	1.43	1.382	0.553	ECOS2TP121CX
120	25 x 30	1.02	1.43	1.382	0.553	ECOS2TP121CA
150	25 x 30	1.16	1.62	1.105	0.442	ECOS2TP151CA
180	25 x 30	1.44	2.02	0.921	0.368	ECOS2TP181CX
180	25 x 35	1.44	2.02	0.921	0.368	ECOS2TP181CA
220	25 x 40	1.49	2.09	0.829	0.373	ECOS2TP221CA
270	25 x 45	1.67	2.34	0.675	0.304	ECOS2TP271CA
330	25 x 50	1.90	2.66	0.553	0.249	ECOS2TP331CX
100	30 x 20	0.47	0.66	1.989	0.696	ECOS2TP101DL
150	30 x 25	1.16	1.62	1.105	0.442	ECOS2TP151DA
180	30 x 25	1.44	2.02	0.921	0.368	ECOS2TP181DX
180	30 x 30	1.44	2.02	0.921	0.368	ECOS2TP181DA
220	30 x 30	1.49	2.09	0.829	0.373	ECOS2TP221DA
270	30 x 35	1.67	2.34	0.675	0.304	ECOS2TP271DA
330	30 x 40	1.90	2.66	0.553	0.249	ECOS2TP331DA
390	30 x 45	2.13	2.98	0.468	0.210	ECOS2TP391DA
470	30 x 50	2.39	3.35	0.388	0.175	ECOS2TP471DA
150	35 x 20	0.60	0.84	1.326	0.531	ECOS2TP151EL
270	35 x 25	1.67	2.34	0.675	0.304	ECOS2TP271EX
270	35 x 30	1.67	2.34	0.675	0.304	ECOS2TP271EA
330	35 x 30	1.90	2.66	0.553	0.249	ECOS2TP331EX
330	35 x 35	1.90	2.66	0.553	0.249	ECOS2TP331EA
390	35 x 35	2.13	2.98	0.468	0.210	ECOS2TP391EX
390	35 x 40	2.13	2.98	0.468	0.210	ECOS2TP391EA
470	35 x 40	2.39	3.35	0.388	0.175	ECOS2TP471EX
470	35 x 45	2.39	3.35	0.388	0.175	ECOS2TP471EA
560	35 x 45	2.69	3.77	0.326	0.147	ECOS2TP561EX
560	35 x 50	2.69	3.77	0.326	0.147	ECOS2TP561EA
680	35 x 50	3.00	4.20	0.268	0.121	ECOS2TP681EX

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TS-UP Standard Ratings (continued)

Cap. (µF)	Size (mm) D x L	Max. 85°C R.C. (A_{rms}) 120Hz	Max. 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
400 VDC Working, 450 VDC Surge						
82	20 x 30	0.83	1.16	2.022	0.708	ECOS2GP820AA
100	20 x 35	0.92	1.29	1.658	0.580	ECOS2GP101AA
120	20 x 40	1.02	1.43	1.382	0.484	ECOS2GP121AA
47	22 x 20	0.25	0.35	3.527	1.235	ECOS2GP470BL
47	22 x 25	0.47	0.66	3.527	1.235	ECOS2GP470BA
68	22 x 25	0.69	0.97	2.438	0.853	ECOS2GP680BA
82	22 x 25	0.83	1.16	2.022	0.708	ECOS2GP820BA
100	22 x 30	0.92	1.29	1.658	0.580	ECOS2GP101BA
120	22 x 35	1.02	1.43	1.382	0.484	ECOS2GP121BA
150	22 x 40	1.16	1.62	1.105	0.387	ECOS2GP151BA
180	22 x 45	1.44	2.02	0.921	0.322	ECOS2GP181BA
220	22 x 50	1.49	2.09	0.754	0.264	ECOS2GP221BA
68	25 x 20	0.35	0.49	2.926	1.024	ECOS2GP680CL
100	25 x 25	0.92	1.29	1.658	0.580	ECOS2GP101CA
120	25 x 25	1.02	1.43	1.382	0.484	ECOS2GP121CX
150	25 x 30	1.16	1.62	1.105	0.387	ECOS2GP151CA
180	25 x 30	1.44	2.02	0.921	0.322	ECOS2GP181CX
180	25 x 35	1.44	2.02	0.921	0.322	ECOS2GP181CA
220	25 x 40	1.49	2.09	0.754	0.264	ECOS2GP221CA
270	25 x 45	1.67	2.34	0.675	0.236	ECOS2GP271CA
100	30 x 20	0.47	0.66	1.989	0.696	ECOS2GP101DL
150	30 x 25	1.16	1.62	1.105	0.387	ECOS2GP151DA
220	30 x 30	1.49	2.09	0.754	0.264	ECOS2GP221DA
270	30 x 35	1.67	2.34	0.675	0.236	ECOS2GP271DA
330	30 x 40	1.90	2.66	0.553	0.193	ECOS2GP331DA
390	30 x 45	2.13	2.98	0.468	0.164	ECOS2GP391DA
150	35 x 20	0.60	0.84	1.326	0.464	ECOS2GP151EL
270	35 x 30	1.67	2.34	0.675	0.236	ECOS2GP271EA
330	35 x 30	1.90	2.66	0.553	0.193	ECOS2GP331EX
330	35 x 35	1.90	2.66	0.553	0.193	ECOS2GP331EA
390	35 x 35	2.13	2.98	0.468	0.164	ECOS2GP391EX
390	35 x 40	2.13	2.98	0.468	0.164	ECOS2GP391EA
470	35 x 40	2.39	3.35	0.388	0.136	ECOS2GP471EX
470	35 x 45	2.39	3.35	0.388	0.136	ECOS2GP471EA
560	35 x 45	2.69	3.77	0.326	0.114	ECOS2GP561EX
560	35 x 50	2.69	3.77	0.326	0.114	ECOS2GP561EA
680	35 x 50	3.00	4.20	0.268	0.094	ECOS2GP681EX
560	40 x 40	2.69	3.77	0.326	0.114	ECOS2GP561FA
820	40 x 50	3.38	4.73	0.222	0.078	ECOS2GP821FA
500 VDC Working, 550 VDC Surge						
47	22 x 25	0.63	0.88	3.527	1.411	ECOS2HP470BA
56	22 x 30	0.70	0.98	2.960	1.184	ECOS2HP560BA
68	22 x 35	0.78	1.09	2.438	0.975	ECOS2HP680BA
82	22 x 40	0.88	1.23	2.022	0.809	ECOS2HP820BA
100	22 x 45	0.99	1.39	1.658	0.663	ECOS2HP101BA
120	22 x 50	1.13	1.58	1.382	0.553	ECOS2HP121BA
68	25 x 25	0.78	1.09	2.438	0.975	ECOS2HP680CA
82	25 x 30	0.88	1.23	2.022	0.809	ECOS2HP820CA
100	25 x 35	0.99	1.39	1.658	0.663	ECOS2HP101CA
120	25 x 40	1.13	1.58	1.382	0.553	ECOS2HP121CA
150	25 x 45	1.29	1.80	1.105	0.442	ECOS2HP151CA
180	25 x 50	1.38	1.93	0.921	0.368	ECOS2HP181CA
120	30 x 30	1.13	1.58	1.382	0.553	ECOS2HP121DA
150	30 x 35	1.29	1.80	1.105	0.442	ECOS2HP151DA
180	30 x 40	1.38	1.93	0.921	0.368	ECOS2HP181DA
220	30 x 45	1.50	2.10	0.754	0.339	ECOS2HP221DA
150	35 x 25	1.20	1.68	1.105	0.442	ECOS2HP151EA
180	35 x 30	1.36	1.90	0.921	0.368	ECOS2HP181EA
220	35 x 35	1.54	2.16	0.754	0.301	ECOS2HP221EA
270	35 x 40	1.76	2.46	0.614	0.276	ECOS2HP271EA
330	35 x 45	1.99	2.79	0.502	0.251	ECOS2HP331EA
390	35 x 50	2.22	3.11	0.425	0.234	ECOS2HP391EA
330	40 x 40	2.16	3.02	0.502	0.276	ECOS2HP331FA
470	40 x 50	2.70	3.78	0.353	0.194	ECOS2HP471FA

Cap. (µF)	Size (mm) D x L	Max. 85°C R.C. (A_{rms}) 120Hz	Max. 85°C R.C. (A_{rms}) 10k~100kHz	Max. 20°C ESR (Ω) 120Hz	Max. 20°C ESR (Ω) 20kHz	Panasonic Part Number
450 VDC Working, 500 VDC Surge						
56	20 x 30	0.70	0.98	2.960	1.184	ECOS2WP560AA
82	20 x 35	0.83	1.16	2.022	0.809	ECOS2WP820AA
33	22 x 20	0.20	0.28	6.028	2.411	ECOS2WP330BL
33	22 x 25	0.41	0.57	6.028	2.411	ECOS2WP330BA
47	22 x 25	0.59	0.83	4.233	1.693	ECOS2WP470BA
56	22 x 25	0.70	0.98	2.960	1.184	ECOS2WP560BA
82	22 x 30	0.83	1.16	2.022	0.809	ECOS2WP820BA
100	22 x 35	0.93	1.30	1.658	0.663	ECOS2WP101BA
120	22 x 40	1.04	1.46	1.382	0.553	ECOS2WP121BA
150	22 x 50	1.19	1.67	1.105	0.442	ECOS2WP151BA
47	25 x 20	0.29	0.41	4.233	1.693	ECOS2WP470CL
82	25 x 25	0.83	1.16	2.022	0.809	ECOS2WP820CA
120	25 x 30	1.04	1.46	1.382	0.553	ECOS2WP121CA
150	25 x 40	1.19	1.67	1.105	0.442	ECOS2WP151CA
180	25 x 40	1.35	1.89	0.921	0.368	ECOS2WP181CX
180	25 x 45	1.35	1.89	0.921	0.368	ECOS2WP181CA
220	25 x 45	1.55	2.17	0.754	0.301	ECOS2WP221CX
220	25 x 50	1.55	2.17	0.754	0.301	ECOS2WP221CA
68	30 x 20	0.38	0.53	2.926	1.170	ECOS2WP680DL
120	30 x 25	1.04	1.46	1.382	0.553	ECOS2WP121DA
150	30 x 30	1.19	1.67	1.105	0.442	ECOS2WP151DA
180	30 x 30	1.35	1.89	0.921	0.368	ECOS2WP181DX
180	30 x 35	1.35	1.89	0.921	0.368	ECOS2WP181DA
220	30 x 35	1.55	2.17	0.754	0.301	ECOS2WP221DX
220	30 x 40	1.55	2.17	0.754	0.301	ECOS2WP221DA
270	30 x 45	1.78	2.49	0.675	0.270	ECOS2WP271DA
330	30 x 50	2.01	2.81	0.553	0.249	ECOS2WP331DA
100	35 x 20	0.52	0.73	1.989	0.796	ECOS2WP101EL
180	35 x 25	1.35	1.89	0.921	0.368	ECOS2WP181EA
220	35 x 30	1.55	2.17	0.754	0.301	ECOS2WP221EA
270	35 x 30	1.78	2.49	0.614	0.246	ECOS2WP271EX
270	35 x 35	1.78	2.49	0.675	0.270	ECOS2WP271EA
330	35 x 35	2.01	2.81	0.553	0.221	ECOS2WP331EX
330	35 x 40	2.01	2.81	0.553	0.249	ECOS2WP331EA
390	35 x 45	2.24	3.14	0.510	0.255	ECOS2WP391EA
470	35 x 45	2.53	3.54	0.423	0.233	ECOS2WP471EX
470	35 x 50	2.53	3.54	0.423	0.233	ECOS2WP471EA
470	40 x 40	2.53	3.54	0.423	0.233	ECOS2WP471FA
680	40 x 50	3.15	4.41	0.293	0.161	ECOS2WP681FA

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