

T-UP Series 85°C, 3000 hours

- 4 or 5 terminal mounting provides stability and keyed polarity
- Extended CV ratings
- Endurance rating of 3000 hours at 85°C
- Can vent construction



Rated Working Voltage:	16 ~ 250 VDC	350 ~ 500 VDC
Operating Temperature:	-40 ~ +85°C	-25 ~ +85°C
Nominal Capacitance:	1200 ~ 270000µF (±20% tolerance)	220 ~ 2700µF (±20% tolerance)
Leakage Current:	3√CV (µA) max. after 5 minutes; C = Capacitance in µF, V = WV	
Ripple Current Multipliers:	Frequency(Hz):	50 60 100~120 500 1k 10k~
	16~100WV:	0.93 0.95 1.0 1.05 1.08 1.15
	160~500WV:	0.75 0.8 1.0 1.2 1.25 1.4
Ambient Temperature Factor*		
Temperature (°C):		
Multiplier:		
Endurance:		
3000 hours at +85°C with maximum specified ripple current (see page 6)		

*Use of temperature ripple current multipliers may limit life to the hours specified for the maximum operating temperature.

Part Number System

E

C

E

P

A

Common Code / Number of Terminals

ECET

4 terminal
ϕ35 & 40mm dia.

ECEP

5 terminal
ϕ 40 & 50mm dia.

Voltage Code

Series

Capacitance Code

Diameter Code

Terminal Style (see pg.40)

Ratings:

Standard

Extended

6.3mm length snap-in (standard):

A

X

4.0mm length "short" terminal:

4

5

4.0mm length straight pin with standoff:

E

Y

T-UP Standard Ratings

Cap. (µF)	Size (mm) D x L	Max 85°C R.C. (A _{ms})	Max 20°C E.S.R. (Ω)	Panasonic Part Number
16 VDC Working, 20 VDC Surge				
47000	35 x 40	7.47	8.59	ECET1CP473EA
56000	40 x 40	9.05	10.41	ECET1CP563FA
68000	35 x 50	9.05	10.41	ECET1CP683EA
82000	35 x 63	10.02	11.52	ECET1CP823EA
	40 x 50	10.29	11.83	ECET1CP823FA
100000	35 x 80	11.00	12.65	ECET1CP104EA
	40 x 63	11.36	13.06	ECET1CP104FA
120000	35 x 105	12.81	14.73	ECET1CP124EA
	40 x 80	12.42	14.28	ECET1CP124FA
	50 x 50	13.17	15.15	ECET1CP124HA
150000	50 x 63	14.40	16.56	ECET1CP154HA
180000	40 x 105	14.85	17.08	ECET1CP184FA
	50 x 80	15.69	18.04	ECET1CP184HA
220000	50 x 92	16.73	19.24	ECET1CP224HA
270000	50 x 105	17.79	20.46	ECET1CP274HA
25 VDC Working, 32 VDC Surge				
33000	35 x 40	6.84	7.87	ECET1EP333EA
39000	40 x 40	8.00	9.20	ECET1EP393FA
47000	35 x 50	8.00	9.20	ECET1EP473EA
56000	35 x 63	8.85	10.18	ECET1EP563EA
	40 x 50	8.96	10.30	ECET1EP563FA
68000	35 x 80	10.43	11.99	ECET1EP683EA
	40 x 63	10.25	11.79	ECET1EP683FA
82000	50 x 50	12.29	14.13	ECET1EP823HA
100000	35 x 105	11.97	13.77	ECET1EP104EA
	40 x 80	12.08	13.89	ECET1EP104FA
	50 x 63	13.45	15.47	ECET1EP104HA
120000	50 x 80	15.29	17.58	ECET1EP124HA
150000	40 x 105	14.07	16.18	ECET1EP154FA
	50 x 92	16.01	18.41	ECET1EP154HA
180000	50 x 105	16.89	19.42	ECET1EP184HA
35 VDC Working, 44 VDC Surge				
22000	35 x 40	6.10	7.02	ECET1VP223EA
27000	40 x 40	6.84	7.87	ECET1VP273FA
35 VDC Working, 44 VDC Surge (continued)				
33000	35 x 50	7.15	8.22	ECET1VP333EA
39000	35 x 63	7.94	9.13	ECET1VP393EA
	40 x 50	7.98	9.18	ECET1VP393FA
47000	35 x 80	9.53	10.96	ECET1VP473EA
	40 x 63	9.58	11.02	ECET1VP473FA
56000	40 x 80	10.30	11.85	ECET1VP563FA
	50 x 50	10.94	12.58	ECET1VP563HA
68000	35 x 105	10.62	12.21	ECET1VP683EA
	50 x 63	11.93	13.72	ECET1VP683HA
82000	40 x 105	12.02	13.82	ECET1VP823FA
	50 x 80	13.06	15.02	ECET1VP823HA
100000	50 x 92	13.97	16.07	ECET1VP104HA
120000	50 x 105	14.86	17.09	ECET1VP124HA
50 VDC Working, 63 VDC Surge				
15000	35 x 40	6.44	7.41	ECET1HP153EA
18000	40 x 40	6.94	7.98	ECET1HP183FA
22000	35 x 50	7.57	8.71	ECET1HP223EA
27000	35 x 63	8.31	9.56	ECET1HP273EA
	40 x 50	8.12	9.34	ECET1HP273FA
33000	35 x 80	9.23	10.61	ECET1HP333EA
	40 x 63	9.10	10.47	ECET1HP333FA
	50 x 50	10.48	12.05	ECET1HP333HA
39000	40 x 80	10.12	11.64	ECET1HP393FA
47000	35 x 105	10.27	11.81	ECET1HP473EA
	50 x 63	11.54	13.27	ECET1HP473HA
56000	40 x 105	11.47	13.19	ECET1HP563FA
	50 x 80	12.46	14.33	ECET1HP563HA
68000	50 x 92	13.17	15.15	ECET1HP683HA
82000	50 x 105	13.87	15.95	ECET1HP823HA
63 VDC Working, 79 VDC Surge				
10000	35 x 40	6.52	7.50	ECET1JP103EA
12000	35 x 50	7.15	8.22	ECET1JP123EA
	40 x 40	7.15	8.22	ECET1JP123FA
15000	35 x 63	7.71	8.87	ECET1JP153EA

T-UP Standard Ratings (continued)

Cap. (μ F)	Size (mm) D x L	Max. 85°C R.C. (A_{rms})		Max. 20°C E.S.R. (Ω)		Panasonic Part Number
		120 Hz	10kHz~	120Hz	20kHz	
63 VDC Working, 79 VDC Surge (continued)						
15000	40 x 50	7.53	8.66	0.033	0.027	ECET1JP153FA
18000	35 x 80	9.41	10.82	0.023	0.018	ECET1JP183EA
	40 x 63	9.25	10.64	0.028	0.022	ECET1JP183FA
27000	35 x 105	10.38	11.94	0.015	0.012	ECET1JP273EA
	40 x 80	9.97	11.47	0.018	0.015	ECET1JP273FA
	50 x 50	10.86	12.49	0.018	0.015	ECEP1JP273HA
33000	40 x 105	11.76	13.52	0.015	0.012	ECET1JP333FA
	50 x 63	11.67	13.42	0.017	0.013	ECET1JP333HA
47000	50 x 80	12.78	14.70	0.013	0.010	ECEP1JP473HA
51000	50 x 92	13.34	15.34	0.012	0.010	ECEP1JP513HA
56000	50 x 105	13.93	16.02	0.012	0.009	ECEP1JP563HA
80 VDC Working, 100 VDC Surge						
6800	35 x 40	5.16	5.93	0.046	0.035	ECET1KP682EA
8200	35 x 50	5.83	6.70	0.038	0.029	ECET1KP822EA
	40 x 40	5.83	6.70	0.038	0.029	ECET1KP822FA
10000	35 x 63	6.38	7.34	0.033	0.025	ECET1KP103EA
	40 x 50	6.56	7.54	0.033	0.025	ECET1KP103FA
12000	35 x 80	6.92	7.96	0.028	0.021	ECET1KP123EA
	40 x 63	7.29	8.38	0.028	0.021	ECET1KP123FA
15000	40 x 80	8.93	10.27	0.024	0.018	ECET1KP153FA
18000	50 x 50	10.00	11.50	0.023	0.017	ECEP1KP183HA
22000	35 x 105	9.86	11.34	0.015	0.011	ECET1KP223EA
	50 x 63	11.08	12.74	0.019	0.014	ECEP1KP223HA
27000	40 x 105	11.35	13.05	0.015	0.012	ECET1KP273FA
	50 x 80	12.33	14.18	0.015	0.012	ECEP1KP273HA
33000	50 x 92	13.37	15.38	0.014	0.010	ECEP1KP333HA
39000	50 x 105	14.34	16.49	0.013	0.010	ECEP1KP393HA
100 VDC Working, 125 VDC Surge						
4700	35 x 40	5.13	5.90	0.071	0.049	ECET2AP472EA
5600	40 x 40	5.75	6.61	0.059	0.044	ECET2AP562FA
6800	35 x 50	6.60	7.59	0.049	0.037	ECET2AP682EA
8200	35 x 63	7.05	8.11	0.040	0.030	ECET2AP822EA
	40 x 50	7.28	8.37	0.040	0.030	ECET2AP822FA
10000	35 x 80	7.74	8.90	0.033	0.025	ECET2AP103EA
	40 x 63	7.97	9.17	0.033	0.025	ECET2AP103FA
	50 x 50	8.82	10.14	0.033	0.025	ECEP2AP103HA
12000	35 x 105	8.57	9.86	0.028	0.021	ECET2AP123EA
	40 x 80	8.65	9.95	0.028	0.021	ECET2AP123FA
15000	40 x 105	10.12	11.64	0.022	0.017	ECET2AP153FA
	50 x 63	10.07	11.58	0.022	0.017	ECEP2AP153HA
18000	50 x 80	11.00	12.65	0.018	0.014	ECEP2AP183HA
22000	50 x 92	11.76	13.52	0.015	0.011	ECEP2AP223HA
27000	50 x 105	12.53	14.41	0.014	0.010	ECEP2AP273HA
160 VDC Working, 200 VDC Surge						
2200	35 x 40	4.78	6.69	0.098	0.049	ECET2CP222EA
2700	35 x 50	5.45	7.63	0.080	0.044	ECET2CP272EA
	40 x 40	5.45	7.63	0.080	0.044	ECET2CP272FA
3300	35 x 63	6.29	8.81	0.065	0.036	ECET2CP332EA
	40 x 50	6.29	8.81	0.065	0.036	ECET2CP332FA
3900	35 x 80	7.27	10.18	0.055	0.030	ECET2CP392EA
	40 x 63	7.27	10.18	0.055	0.030	ECET2CP392FA
5600	40 x 80	8.32	11.65	0.038	0.021	ECET2CP562FA
	50 x 50	8.25	11.55	0.038	0.021	ECEP2CP562GA
6800	35 x 105	9.05	12.67	0.032	0.017	ECET2CP682EA
8200	50 x 63	8.93	12.50	0.026	0.014	ECEP2CP822GA
10000	40 x 105	9.86	13.80	0.022	0.012	ECET2CP103FA
	50 x 80	9.80	13.72	0.022	0.012	ECEP2CP103GA
12000	50 x 92	12.93	18.10	0.018	0.010	ECEP2CP123GA
15000	50 x 105	14.10	19.74	0.014	0.008	ECEP2CP153GA
200 VDC Working, 250 VDC Surge						
1800	35 x 40	4.32	6.05	0.120	0.060	ECET2DP182EA
2200	35 x 50	4.92	6.89	0.098	0.054	ECET2DP222EA
	40 x 40	4.92	6.89	0.098	0.054	ECET2DP222FA
2700	35 x 63	5.50	7.70	0.080	0.044	ECET2DP272EA
	40 x 50	5.41	7.57	0.080	0.044	ECET2DP272FA
3300	35 x 80	6.44	9.02	0.065	0.036	ECET2DP332EA
	40 x 63	6.32	8.85	0.065	0.036	ECET2DP332FA
3900	35 x 80	6.60	9.24	0.055	0.030	ECET2DP392EA
	40 x 63	6.81	9.53	0.055	0.030	ECET2DP392FX
	50 x 50	8.22	11.51	0.055	0.030	ECEP2DP392HA
4700	40 x 80	8.38	11.73	0.046	0.025	ECET2DP472FA
	50 x 63	9.32	13.05	0.046	0.025	ECEP2DP472HA
5600	35 x 105	8.90	12.46	0.038	0.021	ECET2DP562EA
	50 x 63	9.57	13.40	0.038	0.021	ECEP2DP562HA
200 VDC Working, 250 VDC Surge (continued)						
6800	40 x 105	8.65	12.11	0.032	0.017	ECET2DP682FA
7500	50 x 80	11.41	15.97	0.032	0.017	ECEP2DP682HA
	50 x 92	12.28	17.19	0.029	0.016	ECEP2DP752HA
8200	50 x 92	13.02	18.23	0.026	0.014	ECEP2DP822HX
	50 x 105	13.16	18.42	0.026	0.014	ECEP2DP822HA
10000	50 x 105	14.17	19.84	0.021	0.011	ECEP2DP103HA
250 VDC Working, 300 VDC Surge						
1200	35 x 40	3.32	4.65	0.166	0.083	ECET2EP122EA
1500	35 x 50	4.04	5.66	0.133	0.066	ECET2EP152EA
	40 x 40	4.04	5.66	0.133	0.066	ECET2EP152FA
1800	35 x 63	4.49	6.29	0.111	0.055	ECET2EP182EA
	40 x 50	4.49	6.29	0.111	0.055	ECET2EP182FA
2200	35 x 63	4.70	6.58	0.090	0.045	ECET2EP222EX
	35 x 80	4.94	6.92	0.090	0.045	ECET2EP222EA
	40 x 63	4.94	6.92	0.090	0.045	ECET2EP222FA
2700	35 x 80	5.63	7.88	0.074	0.037	ECET2EP272EA
	40 x 63	5.81	8.13	0.074	0.037	ECET2EP272FX
	50 x 50	6.77	9.48	0.074	0.037	ECET2EP272HA
3300	40 x 80	7.00	9.80	0.060	0.030	ECET2EP332FA
	50 x 50	7.22	10.11	0.060	0.060	ECEP2EP332HX
	50 x 63	7.79	10.91	0.060	0.030	ECEP2EP332HA
3900	35 x 105	7.47	10.46	0.051	0.026	ECET2EP392EA
	40 x 80	7.36	10.30	0.051	0.026	ECET2EP392FA
	50 x 63	8.19	11.47	0.051	0.026	ECET2EP392HA
	40 x 105	8.88	12.43	0.042	0.021	ECET2EP472FA
4700	50 x 80	9.65	13.51	0.042	0.021	ECEP2EP472HA
	50 x 80	14.34	20.08	0.036	0.018	ECEP2EP562HX
5600	50 x 92	10.80	15.12	0.036	0.018	ECEP2EP562HA
	50 x 105	12.16	17.02	0.029	0.015	ECET2EP682HA
7500	50 x 105	12.56	17.58	0.026	0.014	ECEP2EP752HA
350 VDC Working, 400 VDC Surge						
470	35 x 40	2.40	3.36	0.388	0.175	ECET2VP471EA
680	35 x 50	2.96	4.14	0.366	0.165	ECET2VP681EA
	40 x 40	2.96	4.14	0.366	0.165	ECET2VP681FA
1000	35 x 63	3.80	5.32	0.249	0.112	ECET2VP102EA
	40 x 50	3.80	5.32	0.249	0.112	ECET2VP102FA
1200	35 x 80	4.42	6.19	0.207	0.093	ECET2VP122EA
	40 x 63	4.42	6.19	0.207	0.093	ECET2VP122FA
	50 x 50	5.18	7.25	0.207	0.093	ECEP2VP122HA
1500	50 x 63	6.01	8.41	0.166	0.075	ECEP2VP152HA
1800	35 x 105	5.79	8.11	0.138	0.062	ECET2VP182EA
	40 x 80	5.85	8.19	0.138	0.062	ECET2VP182FA
	50 x 80	6.89	9.65	0.138	0.062	ECEP2VP182HA
	40 x 105	6.91	9.67	0.113	0.051	ECET2VP222FA
2200	50 x 92	7.79	10.91	0.113	0.051	ECEP2VP222HA
	50 x 105	8.80	12.32	0.092	0.041	ECEP2VP272HA
400 VDC Working, 450 VDC Surge						
470	35 x 45	2.39	3.35	0.388	0.136	ECET2GP471EX
560	35 x 50	2.72	3.81	0.326	0.114	ECET2GP561EA
	40 x 40	2.69	3.77	0.326	0.114	ECET2GP561FA
680	40 x 50	3.38	4.73	0.268	0.093	ECET2GP681FA
820	35 x 63	3.55	4.97	0.222	0.078	ECET2GP821EA
	40 x 50	3.38	4.73	0.222	0.078	ECET2GP821FA
1000	35 x 80	3.42	4.79	0.199	0.080	ECET2GP102EA
	40 x 63	4.16	5.82	0.199	0.080	ECET2GP102FA
	50 x 50	4.76	6.66	0.199	0.080	ECET2GP102HA
1200	35 x 80	4.52	6.33	0.152	0.053	ECET2GP122EA
	40 x 63	4.52	6.33	0.152	0.053	ECET2GP122FA
	50 x 50	5.21	7.29	0.166	0.066	ECET2GP122HX
	50 x 63	5.47	7.66	0.166	0.066	ECEP2GP122HA
1500	35 x 105	5.44	7.62	0.122	0.043	ECET2GP152EA
	40 x 80	5.50	7.70	0.122	0.043	ECET2GP152FA
	50 x 63	6.12	8.57	0.133	0.053	ECEP2GP152HX
	50 x 80	6.47	9.06	0.133	0.053	ECEP2GP152HA
1800	40 x 105	6.53	9.14	0.101	0.035	ECET2GP182FA
	50 x 80	7.09	9.93	0.111	0.044	ECEP2GP182HX
	50 x 92	7.35	10.29	0.111	0.044	ECEP2GP182HA
	50 x 92	8.13	11.38	0.090	0.036	ECEP2GP222HX
2200	50 x 105	8.43	11.80	0.090	0.036	ECEP2GP222HA
	50 x 105	9.34	13.08	0.073	0.025	ECEP2GP272HA
450 VDC Working, 500 VDC Surge						
330	35 x 40	2.01	2.81	0.553	0.249	ECET2WP331EA

T-UP Standard Ratings (continued)

Cap. (μ F)	Size (mm) D x L	Max. 85°C R.C. (A_{rms})		Max. 20°C E.S.R. (Ω)		Panasonic Part Number
		120 Hz	10kHz~	120Hz	20kHz	
400 VDC Working, 450 VDC Surge (continued)						
560	35 x 63	2.90	4.06	0.355	0.195	ECET2WP561EA
680	35 x 80	3.17	4.44	0.293	0.161	ECET2WP681EA
	40 x 50	3.15	4.41	0.293	0.161	ECET2WP681FA
820	35 x 80	3.78	5.29	0.243	0.133	ECET2WP821EA
	40 x 63	3.70	5.18	0.243	0.133	ECET2WP821FA
	50 x 50	4.31	6.03	0.263	0.145	ECEP2WP821HA
1000	40 x 80	4.21	5.89	0.216	0.119	ECET2WP102FA
	50 x 63	4.96	6.94	0.216	0.119	ECEP2WP102HA
1200	35 x 105	4.80	6.72	0.166	0.091	ECET2WP122EA
	40 x 80	4.84	6.78	0.166	0.091	ECET2WP122FA
	50 x 63	5.43	7.60	0.180	0.099	ECEP2WP122HX
	50 x 80	5.71	7.99	0.180	0.099	ECEP2WP122HA
1500	40 x 105	5.81	8.13	0.133	0.073	ECET2WP152FA
	50 x 80	6.15	8.61	0.144	0.079	ECEP2WP152HX
	50 x 92	6.55	9.17	0.144	0.079	ECEP2WP152HA
1800	50 x 92	7.02	9.83	0.120	0.066	ECEP2WP182HX
	50 x 105	7.36	10.30	0.120	0.066	ECEP2WP182HA
500 VDC Working, 550 VDC Surge						
270	35 x 40	1.76	2.46	0.614	0.276	ECET2HP271EA
330	40 x 40	2.16	3.02	0.502	0.276	ECET2HP331FA
390	35 x 50	2.22	3.11	0.425	0.234	ECET2HP391EA
470	35 x 63	2.58	3.61	0.353	0.194	ECET2HP471EA
	40 x 50	2.70	3.78	0.353	0.194	ECET2HP471FA
560	40 x 63	3.11	4.35	0.326	0.179	ECET2HP561FA
	50 x 50	3.52	4.93	0.355	0.195	ECEP2HP561HA
680	35 x 80	3.21	4.49	0.244	0.134	ECET2HP681EA
	50 x 50	3.88	5.43	0.293	0.161	ECEP2HP681HX
	50 x 63	4.07	5.70	0.293	0.161	ECEP2HP681HA
820	35 x 105	3.97	5.56	0.202	0.111	ECET2HP821EA
	40 x 80	3.88	5.43	0.222	0.122	ECET2HP821FA
	50 x 63	4.47	6.26	0.222	0.122	ECET2HP821HA
1000	50 x 80	5.05	7.07	0.199	0.109	ECEP2HP102HA
1200	40 x 105	5.90	8.26	0.152	0.084	ECET2HP122FA
	50 x 80	5.35	7.49	0.166	0.091	ECEP2HP122HX
	50 x 92	5.74	8.04	0.166	0.091	ECEP2HP122HA
1500	50 x 105	6.65	9.31	0.144	0.079	ECEP2HP152HA

Mouser Electronics

Authorized Distributor

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[T1JP123EA](#) [ECE-T1JP153EA](#) [ECE-T1JP153FA](#) [ECE-T1JP183EA](#) [ECE-T1JP183FA](#) [ECE-T1JP223FA](#) [ECE-](#)
[T1JP223FX](#) [ECE-T1JP333FA](#) [ECE-T1JP472EX](#) [ECE-T1KP103FA](#) [ECE-T1KP123EA](#) [ECE-T1KP123FA](#) [ECE-](#)
[T1KP153FA](#) [ECE-T1VP103EA](#) [ECE-T1VP223EA](#) [ECE-T1VP393FA](#) [ECE-T1VP473EA](#) [ECE-T1VP473FA](#) [ECE-](#)
[T1VP563FA](#) [ECE-T1VP683EA](#) [ECE-T2AP103EA](#) [ECE-T2AP123FA](#) [ECE-T2AP392EA](#) [ECE-T2AP822FA](#) [ECE-](#)
[T2DP272FA](#) [ECE-T2DP332EA](#) [ECE-T2DP392FA](#) [ECE-T2DP472FA](#) [ECE-T2EP152EA](#) [ECE-T2EP182EA](#) [ECE-](#)
[T2EP182FA](#) [ECE-T2EP222EA](#) [ECE-T2EP222EX](#) [ECE-T2EP222FA](#) [ECE-T2EP272EA](#) [ECE-T2EP272FA](#) [ECE-](#)
[T2EP272FX](#) [ECE-T2EP392FA](#) [ECE-T2GP102EA](#) [ECE-T2GP122EA](#) [ECE-T2GP122FA](#) [ECE-T2GP152FA](#) [ECE-](#)
[T2GP681EA](#) [ECE-T2GP681FA](#) [ECE-T2GP821FA](#) [ECE-T2HP331EL](#) [ECE-T2HP391EA](#) [ECE-T2HP421FL](#) [ECE-](#)
[T2HP471EA](#) [ECE-T2HP561FA](#) [ECE-T2UP122EH](#) [ECE-T2UP152EH](#) [ECE-T2UP821EH](#) [ECE-T2VP102EA](#) [ECE-](#)
[T2VP102FA](#) [ECE-T2VP122EA](#) [ECE-T2VP122FA](#) [ECE-T2VP182FA](#) [ECE-T2VP471EA](#) [ECE-T2WP102FA](#) [ECE-](#)
[T2WP471EA](#) [ECE-T2WP501FA](#) [ECE-T2WP561EA](#) [ECE-T2WP561FA](#) [ECE-T2WP681EA](#) [ECE-T2WP681FA](#) [ECE-](#)
[T2WP681FZ](#) [ECE-T2WP821EA](#) [ECE-T2WP821FA](#) [ECE-T2CP103FA](#)