## TS-HC Series snap-in style

- Highly miniaturized version (30% smaller than HB series)
- 2 and 3 pin versions available
- 2000 hour life at 105°C
- Can vent construction



Rated Working Voltage:	10 ~ 250 VDC							350 ~ 450 VDC							
Operating Temperature:	-40 ~ +105°C							-25 ~ +105°C							
Nominal Capacitance:		2	70~100	)000 μF				100 ∼ 820µF							
Capacitance Tolerance:		± 2						20%							
Dissipation Factor:	Working Voltage [V].			10	16	25	35	50	63	80	100	- 450			
(120 Hz, +20°C)		Max. D.F. (%):			55	45	35	30	25	20	17	15			
	For capacitance values > 33000 µF, add the value of: (rated cap. [µF] - 33000) 1000														
Leakage Current:	3vCV (μA) max. after 5 minutes; $C = Capacitance in μF, V = WV$														
Ripple Current Multipliers:	Frequency(Hz):	50	60	100~120	500	1k	10k~	Ripple Current Ambient Temperature Factors*							
	10~100WV:	0.93	0.95	1.0	1.05	1.08	1.15	_ A	mbient Te	mperature:	105°C	85°C	70°C	60°C	=45°C
	160~500WV:	0.75	0.8	1.0	1.2	1.25	1.25 1.4 Multiplier: 1.0 1.7 2.0						2.2	2.35	
Endurance:		2000 hours at +105°C with maximum specified ripple current (see page 4)													

<sup>\*</sup>Use of temperature ripple current multipliers may limit life to the hours specified for the maximum operating temperature.

## **Part Number System**

E E T

	부	7											
	Diameter / Terminal Code												
	# of pins:	2	2	3									
	pin length:	6.3mm	4.0mm	4.0mm									
۶r	22mm	В	Н	Р									
Jete	25mm	С	J	Q									
Diameter	30mm	D	K	R									
Ω	35mm	E	L	S									
	(Please see page 7 for details)												

Top Vinyl Plate

A with plate
without plate (no suffix)

TS-HC Standard Ratings (part numbers shown with 2 pins, 6.3mm length terminal, and top vinyl plate)

Cap.	Size (mm)	Max 105°(	C R.C. (A <sub>rms</sub> )	20°C ESR	(Ω, max.)	Panasonic	Cap.	Size (mm)	Max 105°C	R.C. (A <sub>rms</sub> )	20°C ESR (Ω, max.)		Panasonic
(µF)	DxL	120Hz	10kHz~	120Hz	20kHz	Part Number	(µF)	DxL	120Hz	10kHz~	120Hz	20kHz	Part Number
		10 V	DC Working	, 13 VDC S	urge				16 VDC Wo	orking, 20 V	DC Surge (	continued)	
12000	22 x 25	2.20	2.53	0.076	0.065	EETHC1A123BA	18000	22 x 40	3.50	4.03	0.041	0.035	EETHC1C183BA
18000	22 x 30	2.40	2.76	0.051	0.043	EETHC1A183BA		25 x 30	3.50	4.03	0.041	0.035	EETHC1C183CA
	25 x 25	2.40	2.76	0.051	0.043	EETHC1A183CA	22000	22 x 45	3.80	4.37	0.034	0.029	EETHC1C223BA
22000	22 x 35	2.60	2.99	0.041	0.035	EETHC1A223BA		25 x 35	3.80	4.37	0.034	0.029	EETHC1C223CA
	25 x 30	2.60	2.99	0.041	0.035	EETHC1A223CA		30 x 25	3.80	4.37	0.034	0.029	EETHC1C223DA
27000	22 x 40	3.10	3.57	0.034	0.029	EETHC1A273BA	27000	22 x 50	4.20	4.83	0.028	0.023	EETHC1C273BA
	25 x 35	3.10	3.57	0.034	0.029	EETHC1A273CA		25 x 40	4.20	4.83	0.028	0.023	EETHC1C273CA
	30 x 25	3.10	3.57	0.034	0.029	EETHC1A273DA		30 x 30	4.20	4.83	0.028	0.023	EETHC1C273DA
33000	22 x 45	3.40	3.91	0.028	0.023	EETHC1A333BA		35 x 25	4.20	4.83	0.028	0.023	EETHC1C273EA
	25 x 40	3.40	3.91	0.028	0.023	EETHC1A333CA	33000	25 x 45	4.70	5.41	0.023	0.019	EETHC1C333CA
39000	25 x 45	3.70	4.26	0.026	0.022	EETHC1A393CA		30 x 35	4.70	5.41	0.023	0.019	EETHC1C333DA
	30 x 30	3.70	4.26	0.026	0.023	EETHC1A393DA		35 x 30	4.70	5.41	0.023	0.020	EETHC1C333EA
	35 x 25	3.70	4.26	0.026	0.022	EETHC1A393EA	39000	30 x 40	5.10	5.87	0.022	0.018	EETHC1C393DA
47000	25 x 50	4.20	4.83	0.024	0.021	EETHC1A473CA		35 x 35	5.10	5.87	0.022	0.020	EETHC1C393EA
	30 x 35	4.20	4.83	0.024	0.022	EETHC1A473DA	47000	30 x 45	5.50	6.33	0.016	0.014	EETHC1C473DA
	35 x 30	4.20	4.83	0.024	0.021	EETHC1A473EA		35 x 40	5.50	6.33	0.021	0.019	EETHC1C473EA
56000	30 x 40	5.00	5.75	0.023	0.021	EETHC1A563DA	56000	30 x 50	6.00	6.90	0.020	0.018	EETHC1C563DA
	35 x 35	5.00	5.75	0.023	0.020	EETHC1A563EA		35 x 45	6.00	6.90	0.020	0.018	EETHC1C563EA
68000	30 x 45	5.40	6.21	0.022	0.020	EETHC1A683DA			25 V	DC Working	, 32 VDC S	urge	
	35 x 40	5.40	6.21	0.022	0.019	EETHC1A683EA	6800	22 x 25	2.40	2.76	0.085	0.064	EETHC1E682BA
82000	35 x 45	6.10	7.02	0.021	0.019	EETHC1A823EA	8200	22 x 30	2.70	3.11	0.071	0.053	EETHC1E822BA
100000	35 x 50	6.90	7.94	0.020	0.019	EETHC1A104EA		25 x 25	2.70	3.11	0.071	0.053	EETHC1E822CA
		16 V	DC Working	, 20 VDC S	urge		10000	22 x 35	3.00	3.45	0.058	0.044	EETHC1E103BA
10000	22 x 25	2.60	2.99	0.075	0.063	EETHC1C103BA	12000	22 x 40	3.20	3.68	0.048	0.036	EETHC1E123BA
12000	22 x 30	2.90	3.34	0.062	0.053	EETHC1C123BA		25 x 30	3.20	3.68	0.048	0.036	EETHC1E123CA
	25 x 25	2.90	3.34	0.062	0.053	EETHC1C123CA	15000	22 x 45	3.60	4.14	0.039	0.029	EETHC1E153BA
15000	22 x 35	3.20	3.68	0.050	0.042	EETHC1C153BA		25 x 35	3.60	4.14	0.039	0.029	EETHC1E153CA

## TS-HC Standard Ratings (continued)

Сар.	Size (mm)		C R.C. (A <sub>rms</sub> )		! (Ω, max.)	Panasonic	Cap.	Size (mm)	Max 105°C	C R.C. (A <sub>rms</sub> )	20°C E60	(Ω, max.)	Panasonic
Сар. (µF)	D x L	120Hz	10kHz~	120Hz	20kHz	Part Number	Сар. (µF)	D x L	120Hz	10kHz~	120Hz	20kHz	Part Number
(Pii )	- ^ -		orking, 32 V			i di citalibei	(Fri /	- ^ -		orking, 79 V			. u.c.tuilibei
15000	30 x 25	3.60	4.14	0.039	0.029	EETHC1E153DA	4700	25 x 35	3.00	3.45	0.071	0.053	EETHC1J472CA
18000	22 x 50	3.90	4.14	0.039	0.029	EETHC1E183BA	5600	22 x 50	3.30	3.80	0.071	0.033	EETHC1J472CA EETHC1J562BA
	25 x 40	3.90	4.49	0.032	0.024	EETHC1E183CA	2300	25 x 40	3.30	3.80	0.059	0.044	EETHC1J562CA
	30 x 30	3.90	4.49	0.032	0.024	EETHC1E183DA		30 x 30	3.30	3.80	0.059	0.044	EETHC1J562DA
	35 x 25	3.90	4.49	0.032	0.024	EETHC1E183EA		35 x 25	3.30	3.80	0.059	0.044	EETHC1J562EA
22000	25 x 45	4.30	4.95	0.026	0.020	EETHC1E223CA	6800	25 x 45	3.60	4.14	0.049	0.037	EETHC1J682CA
	30 x 35	4.30	4.95	0.026	0.020	EETHC1E223DA		30 x 35	3.60	4.14	0.049	0.037	EETHC1J682DA
07000	35 x 30	4.30	4.95	0.026	0.020	EETHC1E223EA	0000	35 x 30	3.60	4.14	0.049	0.037	EETHC1J682EA
27000	30 x 40 35 x 35	4.80 4.80	5.52 5.52	0.021 0.021	0.016 0.016	EETHC1E273DA EETHC1E273EA	8200	30 x 40 35 x 35	3.90 3.90	4.49 4.49	0.040 0.040	0.030 0.030	EETHC1J822DA EETHC1J822EA
33000	30 x 45	5.50	6.33	0.021	0.013	EETHC1E333DA	10000	30 x 45	4.40	5.06	0.040	0.030	EETHC1J103DA
00000	35 x 40	5.50	6.33	0.018	0.014	EETHC1E333EA	10000	35 x 40	4.40	5.06	0.033	0.025	EETHC1J103EA
39000	30 x 50	5.80	6.67	0.017	0.013	EETHC1E393DA	12000	30 x 50	4.80	5.52	0.028	0.021	EETHC1J123DA
	35 x 45	5.80	6.67	0.017	0.014	EETHC1E393EA		35 x 45	4.80	5.52	0.028	0.022	EETHC1J123EA
47000	35 x 50	6.30	7.25	0.017	0.014	EETHC1E473EA	15000	35 x 50	5.40	6.21	0.022	0.018	EETHC1J153EA
			DC Working							OC Working			
4700	22 x 25	2.20	2.53	0.106	0.079	EETHC1V472BA	1200	22 x 25	1.50	1.73	0.235	0.176	EETHC1K122BA
5600	22 x 30	2.40	2.76	0.089	0.067	EETHC1V562BA	1500	22 x 30	1.70	1.96	0.188	0.141	EETHC1K152BA EETHC1K152CA
6800	25 x 25 22 x 35	2.40	2.76 2.99	0.089	0.067 0.055	EETHC1V562CA EETHC1V682BA	1800	25 x 25 22 x 35	1.70 1.80	1.96 2.07	0.188 0.157	0.141 0.117	EETHC1K182BA
8200	22 x 40	2.90	3.34	0.061	0.045	EETHC1V822BA	2200	22 x 40	2.10	2.42	0.128	0.096	EETHC1K102BA
3200	25 x 30	2.90	3.34	0.061	0.045	EETHC1V822CA		25 x 30	2.10	2.42	0.128	0.096	EETHC1K222CA
10000	22 x 45	3.20	3.68	0.050	0.037	EETHC1V103BA	2700	22 x 45	2.40	2.76	0.104	0.078	EETHC1K272BA
	25 x 35	3.20	3.68	0.050	0.037	EETHC1V103CA		25 x 35	2.40	2.76	0.104	0.078	EETHC1K272CA
	30 x 25	3.20	3.68	0.050	0.037	EETHC1V103DA		30 x 25	2.40	2.76	0.104	0.078	EETHC1K272DA
12000	25 x 40	3.50	4.03	0.041	0.031	EETHC1V123CA	3300	22 x 50	2.60	2.99	0.085	0.064	EETHC1K332BA
	30 x 30	3.50	4.03	0.041	0.031	EETHC1V123DA		25 x 40	2.60	2.99	0.085	0.064	EETHC1K332CA
15000	35 x 25 25 x 45	3.50 3.90	4.03 4.49	0.041 0.033	0.031 0.025	EETHC1V123EA EETHC1V153CA		30 x 30 35 x 25	2.60 2.60	2.99 2.99	0.085 0.085	0.064 0.064	EETHC1K332DA EETHC1K332EA
13000	30 x 35	3.90	4.49	0.033	0.025	EETHC1V153CA EETHC1V153DA	3900	25 x 45	3.00	3.45	0.063	0.054	EETHC1K392CA
	35 x 30	3.90	4.49	0.033	0.025	EETHC1V153EA	0000	30 x 35	3.00	3.45	0.072	0.054	EETHC1K392DA
18000	30 x 40	4.30	4.95	0.028	0.021	EETHC1V183DA	4700	25 x 50	3.30	3.80	0.060	0.045	EETHC1K472CA
	35 x 35	4.30	4.95	0.028	0.021	EETHC1V183EA		30 x 40	3.30	3.80	0.060	0.045	EETHC1K472DA
22000	30 x 45	5.00	5.75	0.023	0.017	EETHC1V223DA		35 x 30	3.30	3.80	0.060	0.045	EETHC1K472EA
	35 x 40	5.00	5.75	0.023	0.017	EETHC1V223EA	5600	30 x 45	3.70	4.26	0.050	0.038	EETHC1K562DA
27000	30 x 50	5.30	6.10	0.018	0.014	EETHC1V273DA		35 x 35	3.70	4.26	0.050	0.038	EETHC1K562EA
22000	35 x 45	5.30	6.10	0.018	0.014	EETHC1V273EA	6800	30 x 50	3.90	4.49	0.041	0.031	EETHC1K682DA
33000	35 x 50	5.90	6.79 DC Working	0.015	0.012	EETHC1V333EA	8200	35 x 40 35 x 45	3.90 4.50	4.49 5.18	0.041	0.032 0.027	EETHC1K682EA EETHC1K822EA
2700	22 x 25	1.80	2.07	0.154	0.115	EETHC1H272BA	6200	30 X 40		DC Working			EETHCTR022EA
3300	22 x 30	2.00	2.30	0.126	0.094	EETHC1H332BA	820	22 x 25	1.40	1.61	0.303	0.197	EETHC2A821BA
3900	22 x 35	2.20	2.53	0.106	0.080	EETHC1H392BA	1200	22 x 30	1.80	2.07	0.207	0.135	EETHC2A122BA
	25 x 25	2.20	2.53	0.106	0.080	EETHC1H392CA		25 x 25	1.80	2.07	0.207	0.135	EETHC2A122CA
4700	22 x 40	2.50	2.88	0.088	0.066	EETHC1H472BA	1500	22 x 35	2.10	2.42	0.166	0.108	EETHC2A152BA
	25 x 30	2.50	2.88	0.088	0.066	EETHC1H472CA		25 x 30	2.10	2.42	0.166	0.108	EETHC2A152CA
5600	22 x 45	2.80	3.22	0.074	0.056	EETHC1H562BA	1800	22 x 40	2.30	2.65	0.138	0.090	EETHC2A182BA
	25 x 35	2.80	3.22	0.074	0.056	EETHC1H562CA		25 x 35	2.30	2.65	0.138	0.090	EETHC2A182CA
6800	30 x 25 22 x 50	2.80 3.30	3.22 3.80	0.074 0.061	0.056 0.046	EETHC1H562DA EETHC1H682BA	2200	30 x 25 22 x 45	2.30	2.65 2.99	0.138 0.113	0.090 0.073	EETHC2A182DA EETHC2A222BA
3300	25 x 40	3.30	3.80	0.061	0.046	EETHC1H682CA	2200	25 x 40	2.60	2.99	0.113	0.073	EETHC2A222CA
	30 x 30	3.30	3.80	0.061	0.046	EETHC1H682DA		30 x 30	2.60	2.99	0.113	0.073	EETHC2A222DA
	35 x 25	3.30	3.80	0.061	0.046	EETHC1H682EA		35 x 25	2.60	2.99	0.113	0.073	EETHC2A222EA
8200	25 x 45	3.60	4.14	0.051	0.038	EETHC1H822CA	2700	25 x 45	2.90	3.34	0.092	0.060	EETHC2A272CA
	30 x 35	3.60	4.14	0.051	0.038	EETHC1H822DA		30 x 35	2.90	3.34	0.092	0.060	EETHC2A272DA
10000	25 x 50	4.00	4.60	0.041	0.031	EETHC1H103CA	3300	25 x 50	3.20	3.68	0.075	0.049	EETHC2A332CA
	30 x 40	4.00	4.60	0.041	0.031	EETHC1H103DA		30 x 40	3.20	3.68	0.075	0.049	EETHC2A332DA
12000	35 x 30	4.00	4.60	0.041	0.031	EETHC1H103EA	2000	35 x 30	3.20	3.68	0.075	0.049	EETHC2A332EA
12000	30 x 45 35 x 35	4.50 4.50	5.18 5.18	0.035 0.035	0.026 0.028	EETHC1H123DA EETHC1H123EA	3900	30 x 45 35 x 35	3.60 3.60	4.14 4.14	0.064 0.064	0.043 0.043	EETHC2A392DA EETHC2A392EA
15000	30 x 50	4.80	5.16	0.035	0.026	EETHC1H123EA EETHC1H153DA	4700	30 x 50	3.80	4.14	0.064	0.043	EETHC2A392EA EETHC2A472DA
	35 x 40	4.80	5.52	0.028	0.021	EETHC1H153EA	47.00	35 x 40	3.80	4.37	0.053	0.037	EETHC2A472EA
18000	35 x 45	5.60	6.44	0.023	0.018	EETHC1H183EA	5600	35 x 45	4.20	4.83	0.044	0.031	EETHC2A562EA
		63 V	DC Working				6800	35 x 50	4.70	5.41	0.037	0.027	EETHC2A682EA
2200	22 x 25	2.00	2.30	0.151	0.113	EETHC1J222BA				DC Working			
2700	22 x 30	2.20	2.53	0.123	0.092	EETHC1J272BA	470	22 x 25	1.40	1.96	0.423	0.190	EETHC2C471BA
0000	25 x 25	2.20	2.53	0.123	0.092	EETHC1J272CA	560	22 x 30	1.50	2.10	0.355	0.160	EETHC2C561BA
3300	22 x 35	2.50	2.88	0.100	0.075	EETHC1J332BA	680	22 x 30	1.70	2.38	0.293	0.132	EETHC2C681BA
3900	22 x 40	2.70	3.11	0.085	0.064	EETHC1J392BA	920	25 x 25	1.70	2.38	0.293	0.132	EETHC2C681CA
	25 x 30 30 x 25	2.70 2.70	3.11 3.11	0.085 0.085	0.064 0.064	EETHC1J392CA EETHC1J392DA	820	22 x 35 25 x 30	2.00 2.00	2.80 2.80	0.243 0.243	0.109 0.109	EETHC2C821BA EETHC2C821CA
4700	22 x 45	3.00	3.45	0.065	0.053	EETHC1J392DA EETHC1J472BA	1000	25 x 30 22 x 40	2.00	3.08	0.243	0.109	EETHC2C102BA
77.00	A 40	5.00	5.75	0.071	0.000	10 10 7/ ZDA	1000	22 A 40	2.20	0.00	0.100	0.000	OZO :UZDA

## TS-HC Standard Ratings (continued)

TS-HC	Standa	rd Ratin	gs (cont	inued)									
Cap.	Size (mm)	Max 105°C	C R.C. (A <sub>rms</sub> )	20°C ESR	(Ω, max.)	Panasonic	Cap.	Size (mm)	Max 105°C	R.C. (A <sub>rms</sub> )	20°C ESF	R (Ω, max.)	Panasonic
(μF)	DxL	120Hz	10kHz~	120Hz	20kHz	Part Number	(μF)	DxL	120Hz	10kHz~	120Hz	20kHz	Part Number
(Pi )						L	(Pi )						
			orking, 200									(continued)	
1000	25 x 35	2.20	3.08	0.199	0.090	EETHC2C102CA	330	25 x 40	1.20	1.68	0.502	0.226	EETHC2V331CA
4000	30 x 25	2.20	3.08	0.216	0.108	EETHC2C102DA	000	30 x 30	1.20	1.68	0.502	0.226	EETHC2V331DA
1200	22 x 45	2.30	3.22	0.166	0.075	EETHC2C122BA	390	25 x 45	1.30	1.82	0.425	0.191	EETHC2V391CA
	25 x 40	2.30	3.22	0.166	0.075	EETHC2C122CA	470	30 x 35	1.30	1.82	0.425	0.191	EETHC2V391DA
	30 x 30	2.30	3.22	0.166	0.075	EETHC2C122DA	470	25 x 50	1.40	1.96	0.353	0.159	EETHC2V471CA
4500	35 x 25	2.30	3.22	0.180	0.090	EETHC2C122EA	500	35 x 30	1.40	1.96	0.353	0.159	EETHC2V471EA
1500	25 x 45	2.50	3.50	0.133	0.060	EETHC2C152CA	560	30 x 45	1.50	2.10	0.296	0.133	EETHC2V561DA
	30 x 35	2.50	3.50	0.133	0.060	EETHC2C152DA	000	35 x 35	1.50	2.10	0.296	0.133	EETHC2V561EA
4000	35 x 30	2.50	3.50	0.155	0.077	EETHC2C152EA	680	30 x 50	1.70	2.38	0.244	0.110	EETHC2V681DA
1800	25 x 50	2.70	3.78	0.111	0.050	EETHC2C182CA	000	35 x 40	1.70	2.38	0.244	0.110 0.091	EETHC2V681EA
	30 x 40	2.70	3.78	0.111	0.050	EETHC2C182DA	820	35 x 45	1.90	2.66 DC Working	0.202		EETHC2V821EA
2200	35 x 30 30 x 45	2.70 2.90	3.78 4.06	0.120 0.090	0.060 0.041	EETHC2C182EA	100	22 x 25	0.70	0.98	1.824	0.821	EETHC2G101BA
2200	35 x 35	2.90	4.06	0.090	0.041	EETHC2C222DA EETHC2C222EA	120	22 x 23	0.75	1.05	1.524	0.684	EETHC2G101BA
2700	30 x 50	3.10	4.00	0.080	0.049	EETHC2C272DA	150	22 x 30	0.75	1.03	1.216	0.547	EETHC2G151BA
2700	35 x 40	3.10	4.34	0.086	0.040	EETHC2C272EA	180	22 x 35	0.86	1.33	1.013	0.456	EETHC2G181BA
3300	35 x 40	3.30	4.62	0.070	0.043	EETHC2C272EA EETHC2C332EA	100	25 x 30	0.95	1.33	1.013	0.456	EETHC2G181BA
3300	33 X 30		DC Working			LLTITOZOSSZLA	220	22 x 45	1.10	1.54	0.829	0.430	EETHC2G221BA
390	22 x 25	1.31	1.83	0.510	0.230	EETHC2D391BA	220	25 x 35	1.10	1.54	0.829	0.373	EETHC2G221CA
470	22 x 23	1.45	2.03	0.423	0.230	EETHC2D391BA EETHC2D471BA		30 x 25	1.10	1.54	0.829	0.373	EETHC2G221CA EETHC2G221DA
560	22 x 30	1.43	2.03	0.423	0.190	EETHC2D561BA	270	22 x 50	1.10	1.71	0.629	0.373	EETHC2G271BA
680	22 x 30	1.75	2.45	0.333	0.132	EETHC2D681BA	210	25 x 40	1.22	1.71	0.675	0.304	EETHC2G271CA
300	25 x 30	1.75	2.45	0.293	0.132	EETHC2D681CA		30 x 30	1.22	1.71	0.675	0.304	EETHC2G271DA
820	22 x 45	2.04	2.86	0.243	0.109	EETHC2D821BA		35 x 25	1.22	1.71	0.675	0.304	EETHC2G271EA
020	25 x 35	2.04	2.86	0.243	0.109	EETHC2D821CA	330	25 x 45	1.44	2.02	0.553	0.249	EETHC2G331CA
	30 x 25	2.04	2.86	0.243	0.109	EETHC2D821DA	000	30 x 35	1.44	2.02	0.553	0.249	EETHC2G331DA
1000	22 x 50	2.30	3.22	0.199	0.090	EETHC2D102BA		35 x 30	1.44	2.02	0.553	0.249	EETHC2G331EA
1000	25 x 45	2.30	3.22	0.199	0.090	EETHC2D102CA	390	25 x 50	1.55	2.17	0.468	0.210	EETHC2G391CA
	30 x 30	2.30	3.22	0.199	0.090	EETHC2D102DA	000	30 x 40	1.55	2.17	0.468	0.210	EETHC2G391DA
	35 x 25	2.30	3.22	0.216	0.097	EETHC2D102EA		35 x 30	1.55	2.17	0.468	0.210	EETHC2G391EA
1200	25 x 50	2.65	3.71	0.166	0.075	EETHC2D122CA	470	30 x 45	1.68	2.35	0.388	0.175	EETHC2G471DA
	30 x 35	2.65	3.71	0.166	0.075	EETHC2D122DA		35 x 35	1.68	2.35	0.388	0.175	EETHC2G471EA
	35 x 30	2.65	3.71	0.180	0.090	EETHC2D122EA	560	30 x 50	1.90	2.66	0.326	0.147	EETHC2G561DA
1500	30 x 40	2.80	3.92	0.133	0.060	EETHC2D152DA		35 x 40	1.90	2.66	0.326	0.147	EETHC2G561EA
	35 x 30	2.80	3.92	0.144	0.072	EETHC2D152EA	680	35 x 45	2.12	2.97	0.268	0.121	EETHC2G681EA
1800	30 x 45	3.08	4.31	0.111	0.050	EETHC2D182DA				DC Working			
	35 x 40	3.08	4.31	0.129	0.064	EETHC2D182EA	100	22 x 30	0.64	0.90	1.824	0.821	EETHC2W101BA
2200	30 x 50	3.48	4.87	0.090	0.041	EETHC2D222DA		25 x 25	0.64	0.90	1.824	0.821	EETHC2W101CA
	35 x 45	3.48	4.87	0.098	0.044	EETHC2D222EA	120	22 x 35	0.72	1.01	1.520	0.684	EETHC2W121BA
		250 V	DC Working	, 300 VDC	Surge			25 x 30	0.72	1.01	1.520	0.684	EETHC2W121CA
270	22 x 25	1.10	1.54	0.614	0.276	EETHC2E271BA	150	22 x 40	0.79	1.11	1.216	0.547	EETHC2W151BA
330	22 x 30	1.20	1.68	0.502	0.226	EETHC2E331BA		25 x 30	0.79	1.11	1.216	0.547	EETHC2W151CA
	25 x 25	1.20	1.68	0.502	0.226	EETHC2E331CA		30 x 25	0.79	1.11	1.216	0.547	EETHC2W151DA
390	22 x 35	1.30	1.82	0.425	0.191	EETHC2E391BA	180	22 x 45	0.87	1.22	1.013	0.456	EETHC2W181BA
	25 x 25	1.30	1.82	0.425	0.191	EETHC2E391CA		25 x 40	0.87	1.22	1.013	0.456	EETHC2W181CA
470	22 x 40	1.40	1.96	0.353	0.159	EETHC2E471BA		30 x 30	0.87	1.22	1.013	0.456	EETHC2W181DA
	25 x 30	1.40	1.96	0.353	0.159	EETHC2E471CA	220	25 x 45	1.00	1.40	0.829	0.373	EETHC2W221CA
	30 x 25	1.40	1.96	0.353	0.159	EETHC2E471DA		30 x 30	1.00	1.40	0.829	0.373	EETHC2W221DA
560	22 x 45	1.50	2.10	0.296	0.133	EETHC2E561BA	220	35 x 25	1.00	1.40	0.829	0.373	EETHC2W221EA
	25 x 35	1.50	2.10	0.296	0.133	EETHC2E561CA	270	25 x 50	1.19	1.67	0.675	0.304	EETHC2W271CA
	30 x 25	1.50	2.10	0.296	0.133	EETHC2E561DA		30 x 40	1.19	1.67	0.675	0.304	EETHC2W271DA
680	22 x 50	1.70	2.38	0.244	0.110	EETHC2E681BA		35 x 30	1.19	1.67	0.675	0.304	EETHC2W271EA
	25 x 40	1.70	2.38	0.244	0.110	EETHC2E681CA	330	30 x 45	1.38	1.93	0.553	0.249	EETHC2W331DA
	30 x 30	1.70	2.38	0.244	0.110	EETHC2E681DA		35 x 35	1.38	1.93	0.553	0.249	EETHC2W331EA
	35 x 25	1.70	2.38	0.244	0.110	EETHC2E681EA	390	30 x 50	1.55	2.17	0.468	0.210	EETHC2W391DA
820	25 x 45	2.00	2.80	0.202	0.091	EETHC2E821CA		35 x 40	1.55	2.17	0.468	0.210	EETHC2W391EA
	30 x 35	2.00	2.80	0.202	0.091	EETHC2E821DA	470	35 x 45	1.74	2.44	0.388	0.175	EETHC2W471EA
<u></u>	35 x 30	2.00	2.80	0.202	0.091	EETHC2E821EA	560	35 x 50	1.90	2.66	0.326	0.147	EETHC2W561EA
1000	30 x 40	2.20	3.08	0.166	0.075	EETHC2E102DA							
1200	30 x 45	2.30	3.22	0.138	0.062	EETHC2E122DA							
1500	35 x 45	2.50	3.50	0.111	0.050	EETHC2E152EA							
1800	35 x 50	2.70	3.78	0.092	0.041	EETHC2E182EA							
	T		DC Working										
120	22 x 25	0.75	1.05	1.382	0.622	EETHC2V121BA							
150	22 x 30	0.82	1.15	1.105	0.497	EETHC2V151BA							
180	22 x 30	0.90	1.26	0.921	0.414	EETHC2V181BA							
	25 x 25	0.90	1.26	0.921	0.414	EETHC2V181CA							
220	22 x 35	1.00	1.40	0.754	0.339	EETHC2V221BA							
	25 x 30	1.00	1.40	0.754	0.339	EETHC2V221CA							
270	25 x 35	1.10	1.54	0.614	0.276	EETHC2V271CA							
	30 x 25	1.10	1.54	0.614	0.276	EETHC2V271DA							