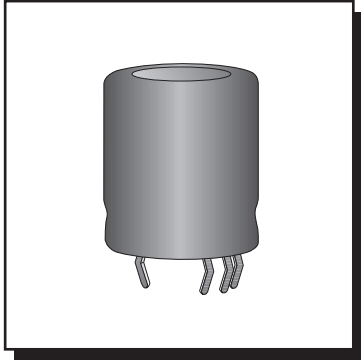


PANASONIC type T-HA

Voltage Range	16V - 450V
Capacitance Range	470µF - 120000µF
Ripple Current Range	1.7A - 8.8A

Aluminium electrolytic capacitors with an extended operating temperature rating of 105°C and providing higher levels of capacitance than the 2 pin TS-HA series. The 4 pin, snap-in terminals offer improved mounting stability and are keyed to ensure correct polarity is maintained during assembly. Available in a wide range of values and voltages and endurance tested for 2000 hours at 105°C, the T-HA series features high CV/high ripple current characteristics making them suitable for many applications and conditions.



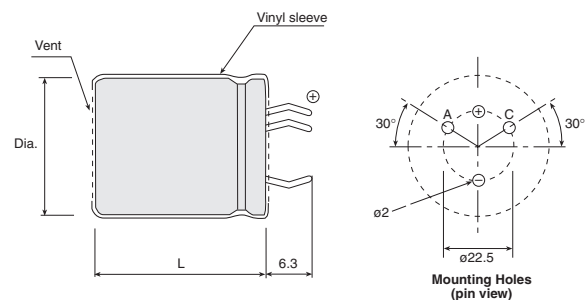
- High temperature, high values
- 4 pin terminals for mounting stability
- Keyed polarity snap-in terminals
- High CV and ripple current
- Endurance test **2000 hours at 105°C**
- Capacitance tolerance **20%**
- Leakage current **$\leq 3\sqrt{CV}$**

Specification

Endurance test 2000 hours at 105°C
 Capacitance tolerance $\pm 20\%$ at 120Hz, 20°C
 Ripple current (as listed) measured at 120Hz, 105°C
 Operating temperature range
 16V to 250V -40°C to +105°C
 >250V -25°C to +105°C
 Leakage current $\leq 3\sqrt{CV}$ (µA) after 5 min.

Surge voltage capability

Rated voltage	16V	25V	35V	50V	63V	80V	d.c.
Surge voltage	20V	32V	44V	63V	79V	100V	d.c.
Rated voltage	100V	200V	250V	350V	400V	450V	d.c.
Surge voltage	125V	250V	300V	400V	450V	500V	d.c.

Dimensions (mm)

Dia. x L are can sizes only. To allow for sleeve add 1.0 to Dia. and 2.0 to L

NOTE - Terminals A & C must be isolated from the wiring circuit.

PANASONIC type T-HA

Value (µF)	Ripple Current (A)	Dimensions (mm) Dia. x L	Manf. Part No. & Anglia Order Code
16 Volt			
56000	6.0	35 x 50	ECET1CA563EA
68000	6.62	35 x 60	ECET1CA683EA
68000	7.29	40 x 50	ECET1CA683FA
82000	7.29	40 x 60	ECET1CA823FA
100000	8.03	35 x 80	ECET1CA104EA
120000	8.79	40 x 80	ECET1CA124FA
25 Volt			
33000	5.5	35 x 50	ECET1EA333EA
47000	6.56	35 x 60	ECET1EA473EA
47000	6.47	40 x 50	ECET1EA473FA
56000	7.25	35 x 80	ECET1EA563EA
56000	7.17	40 x 60	ECET1EA563FA
82000	8.68	40 x 80	ECET1EA823FA
35 Volt			
22000	5.0	35 x 50	ECET1VA223EA
27000	5.53	35 x 60	ECET1VA273EA
27000	5.44	40 x 50	ECET1VA273FA
33000	6.61	40 x 60	ECET1VA333FA
39000	6.52	35 x 80	ECET1VA393EA
47000	7.79	40 x 80	ECET1VA473FA
50 Volt			
15000	4.8	35 x 50	ECET1HA153EA
18000	5.27	35 x 60	ECET1HA183EA
22000	5.15	40 x 50	ECET1HA223FA
27000	6.16	35 x 80	ECET1HA273EA
27000	6.05	40 x 60	ECET1HA273FA
39000	7.65	40 x 80	ECET1HA393FA
63 Volt			
12000	4.4	35 x 50	ECET1JA123EA
15000	4.92	35 x 60	ECET1JA153EA
15000	4.8	40 x 50	ECET1JA153FA
18000	5.79	35 x 80	ECET1JA183EA
18000	5.39	40 x 60	ECET1JA183FA
27000	6.59	40 x 80	ECET1JA273FA
80 Volt			
6800	3.9	35 x 50	ECET1KA682EA
8200	4.39	35 x 60	ECET1KA822EA
8200	4.29	40 x 50	ECET1KA822FA
10000	4.88	35 x 80	ECET1KA103EA
10000	4.73	40 x 60	ECET1KA103FA
15000	5.97	40 x 80	ECET1KA153FA

Value (µF)	Ripple Current (A)	Dimensions (mm) Dia. x L	Manf. Part No. & Anglia Order Code
100 Volt			
4700	3.8	35 x 50	ECET2AA472EA
5600	4.06	35 x 60	ECET2AA562EA
6800	4.57	40 x 50	ECET2AA682FA
8200	5.15	35 x 80	ECET2AA822EA
8200	5.02	40 x 60	ECET2AA822FA
12000	6.44	40 x 80	ECET2AA123FA
200 Volt			
2200	2.9	35 x 50	ECET2DA222EA
2700	3.65	35 x 60	ECET2DA272EA
2700	3.55	40 x 50	ECET2DA272FA
3300	4.52	35 x 80	ECET2DA332EA
3300	4.4	40 x 60	ECET2DA332FA
4700	5.76	40 x 80	ECET2DA472FA
250 Volt			
1200	2.3	35 x 50	ECET2EA122EA
1500	2.57	35 x 60	ECET2EA152EA
1800	3.15	40 x 50	ECET2EA182FA
2200	3.75	35 x 80	ECET2EA222EA
2200	3.68	40 x 60	ECET2EA222FA
3300	4.86	40 x 80	ECET2EA332FA
350 Volt			
680	2.15	35 x 50	ECET2VA681EA
820	2.65	35 x 60	ECET2VA821EA
820	2.65	40 x 50	ECET2VA821FA
1200	3.22	35 x 80	ECET2VA122EA
1200	3.22	40 x 60	ECET2VA122FA
1500	3.75	40 x 80	ECET2VA152FA
400 Volt			
560	1.8	35 x 50	ECET2GA561EA
680	2.17	40 x 50	ECET2GA681FA
820	2.44	35 x 60	ECET2GA821EA
1000	3.0	35 x 80	ECET2GA102EA
1000	3.0	40 x 60	ECET2GA102FA
1200	3.3	40 x 80	ECET2GA122FA
450 Volt			
470	1.74	35 x 50	ECET2WA471EA
560	2.15	35 x 60	ECET2WA561EA
560	2.1	40 x 50	ECET2WA561FA
680	2.5	40 x 60	ECET2WA681FA
820	2.7	35 x 80	ECET2WA821EA
1000	3.5	40 x 80	ECET2WA102FA

APPLICATION GUIDE, including Soldering & Cleaning Procedures – see pages 2 - 3