



勝特力材料 886-3-5753170
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1.Features

- Suitable for thin products thickness 0.48 ± 0.2 mm
- Excellent in endurance against soldering-heat.

2.Applications

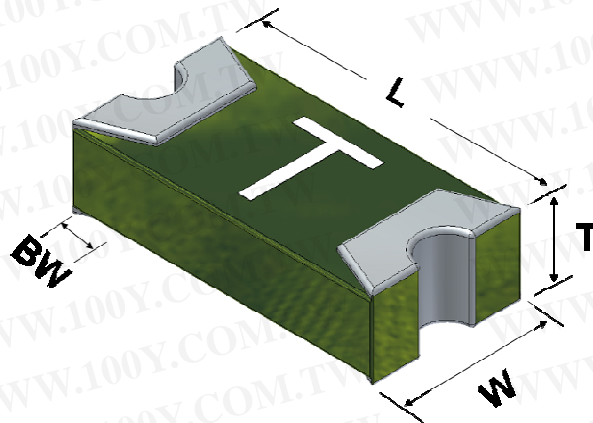
- LCD Display... 【Monitor, Notebook】
- PC Appliance... 【Laptop Computer, Word Processor, CD Drive, MO Drive, Laser Printer and Ink Jet Print】
- Portable Communication Machinery... 【PDA, Mobile Phone and Battery Charge for them】
- AV Appliances... 【DVC, 8mm VC, Digital Camera, Mini Disk Player, Personal Audio Equipment】
- Amusement Machine... 【Game equipment, Handy Game equipment】

3.Applicable Standards

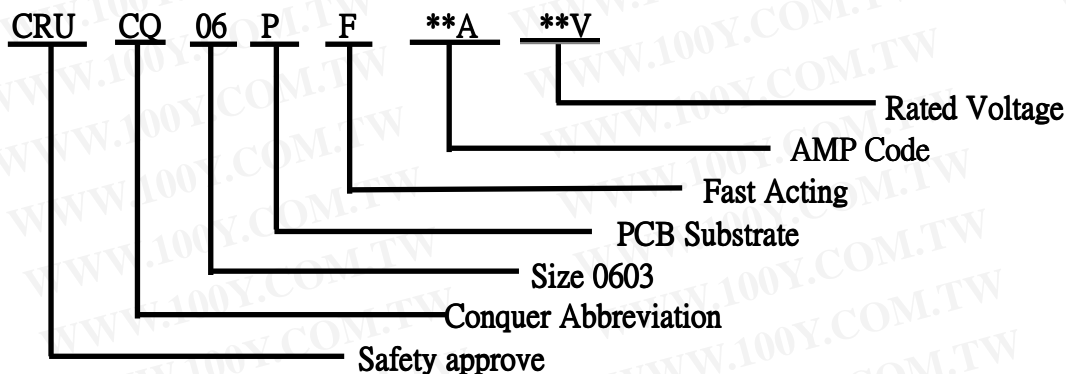
Recognized to meet UL cRU. File No:E82636

4.Dimension and Marking

Type	0603
L	1.6 ± 0.2 mm
W	0.8 ± 0.2 mm
T	0.48 ± 0.2 mm
BW	0.35 ± 0.15 mm



5.Part Number Description



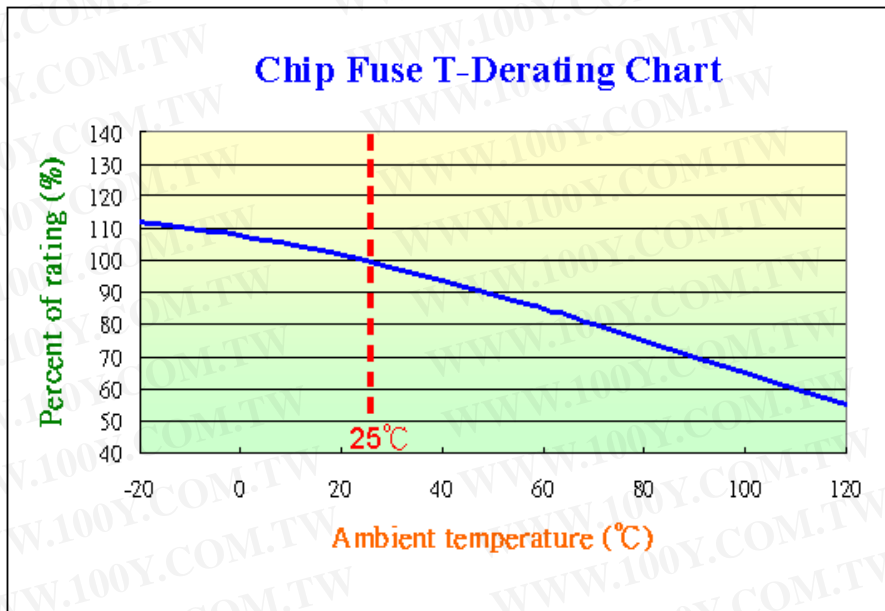


6. Ratings (Include clear-time, Marking code, internal Resistance, Interrupting Rating and Category Temperature range.)

Type	CRU CQ 06PF Series								
Rate Current (A)	0.5A	0.75A	1A	1.5A	2A	2.5A	3A	4A	5A
Marking Code	F	G	H	K	N	O	P	S	T
Internal R (mΩ) at 25°C max.	145	95	69	42	19	16	13	10	8
Nominal Melting I ² t (A ² Sec)	0.03	0.068	0.13	0.26	0.3	0.375	0.54	1.04	1.625
Fusing Current/Fusing Time (at 25°C)	Rated Current × 100% / 4 hours min.								
	Rated Current × 200% / 5 seconds max.								
	Rated Current × 300% / 0.2 seconds max.								
Rated Voltage (Open Circuit Voltage)	63VAC / 63VDC								
Interrupting Rating (at Rated Voltage)	100 A								
Category Temp. Range (Operating Temp. Range)	-55°C to + 125°C								

* Melting I²t at 1000% of current rating

7. Temperature Derating curve

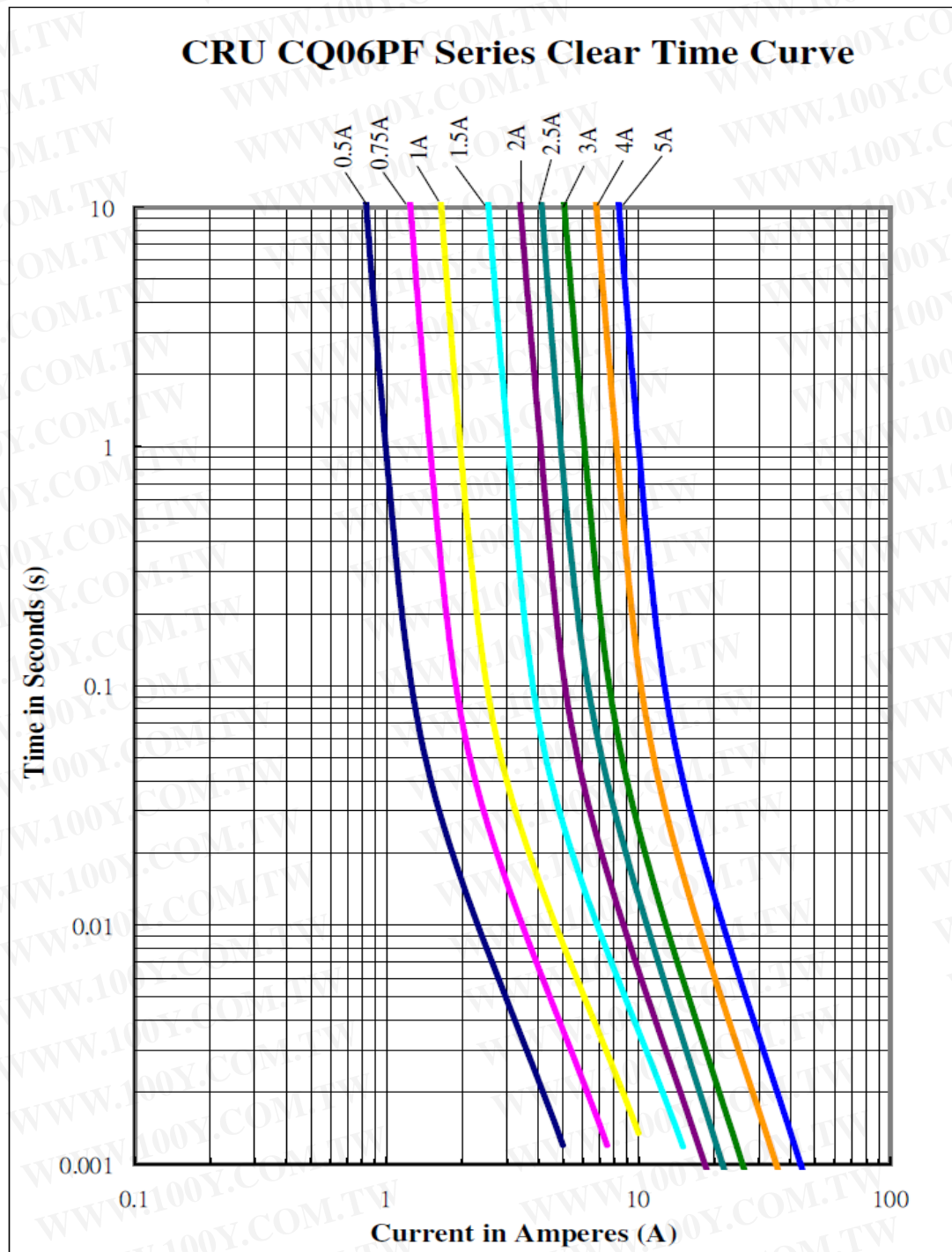


* Ambient temperature on current-carrying capacity.

* For circuit, current rating shall be derated in accordance with the figure.

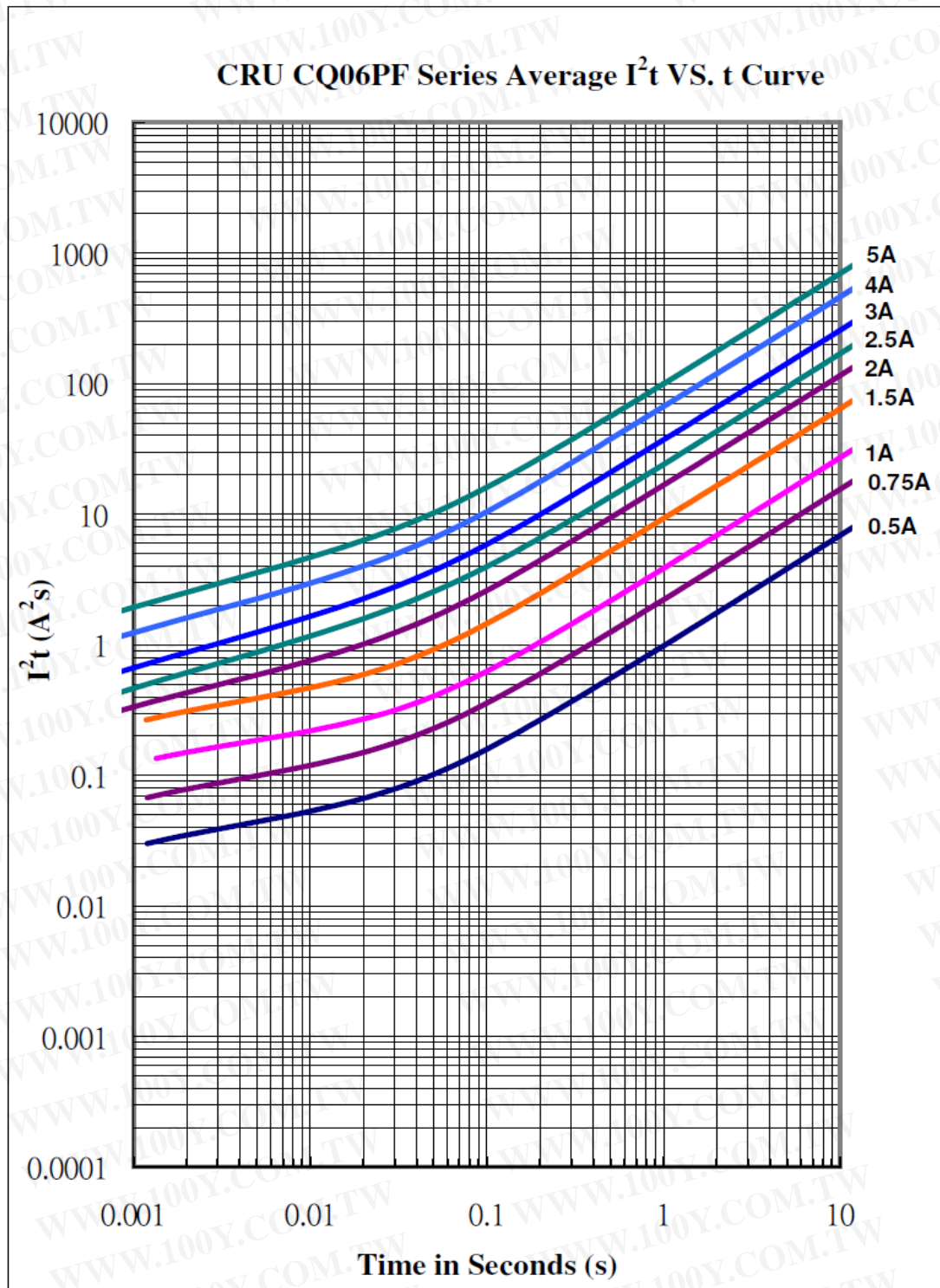


8. Clear Time Curve(I vs t curve)





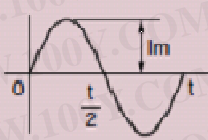
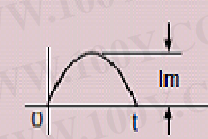


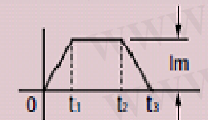
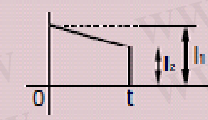

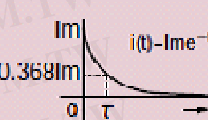
9.Standing Pulse(I^2t vs t curve)



* Measured at 10% of rated current and 25°C ambient

* Melting I^2t at 1000% of current rating

10. Joule-integral Values

Name	Waveform	Joule-integral Values
正弦波 Sinusoidal waveform (1 cycle)		$\frac{1}{2} Im^2 t$
正弦波 Sinusoidal waveform (1/2 cycle)		$\frac{1}{2} Im^2 t$
三角波 Triangle waveform		$\frac{1}{3} Im^2 t$
方形波 Rectangular waveform		$Im^2 t$
台形波 Trapezoidal waveform		$\frac{1}{3} Im^2 t_1 + Im^2 (t_2 - t_1) + \frac{1}{3} Im^2 (t_3 - t_2)$
變形波 1 Various waveform 1		$h_1 h_2 t + \frac{1}{3} (h_1 - h_2)^2 t$
變形波 2 Various waveform 2		$\frac{1}{3} h^2 t_1 + (h_1 h_2 + \frac{1}{3} (h_1 - h_2)^2) (t_2 - t_1) + \frac{1}{3} h^2 (t_3 - t_2)$
充放電波形 Charge/Discharge waveform		$\frac{1}{2} Im^2 \tau$



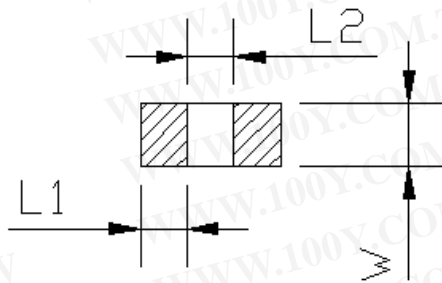
12.Product Characteristics & Reliability Tests

Test item	Test Description & Reference
Humidity unload test	MIL-STD-202G , Method 103B , Test Condition A Heat (40±0.5°C) & High Humidity (95±1% RH), 240 hours , ΔR<15%
Thermal Shock Test	Reference to Conquer standard Temperature setup : 25°C ~ -40°C ~ 25°C ~ 125°C Time setup : -40°C(15min)~25°C(5min)~125°C(15min)~25°C(5min), 100 cycles , ΔR<15%
Vibration Test	MIL-STD-202G , Method 201A Frequency setup : 10 ~ 55 ~ 10 Hz Time setup : 1 Minutes/cycle (X Y Z 120 Cycles) ΔR<15%
Salt spray Test	MIL-STD-202G , Method 101E , Test Condition A Salt spray concentration : 5 ± 1% Test liquid temperature : 35 ± 0.5°C 96hrs , ΔR<15%
Solderability Test	Reference IEC 68-2-58 Temperature setup : 235 ± 5°C, 2 ± 0.5 sec After test terminal electrode wetting area must be greater than 95%
Resistance to Solder Heat Test	Reference IEC 68-2-58 Temperature setup : 260 ± 5°C, 10 ± 1 sec ΔR<15%



13. Standard Substrate for Test

Recommended Landing Pattern

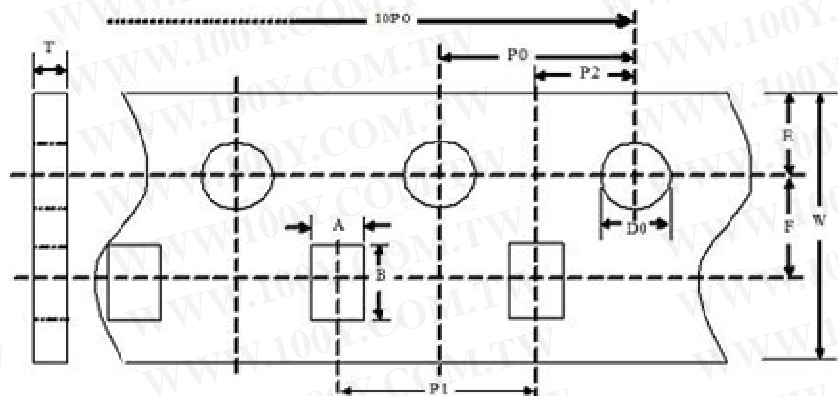
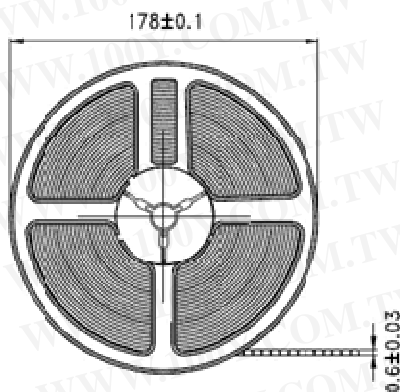


Unit: mm

L1	L2	W
0.66	0.76	1.00

14. Packing

- Surface mount fuses are provided on tape-and-reel for use in pick-and-place machines or in bulk for special applications. Both tape-and-reel and bulk products are sealed in plastic bags with desiccant.
- Tape Dimensions: mm



Item	A	B	W	E	F	P ₀	P ₁	P ₂	D ₀	T	10P ₀
Criterion	1.080	1.880	8.000	1.750	3.500	4.000	4.000	2.000	1.550	0.600	40.000
	0.020	0.020	0.100	0.050	0.050	0.050	0.050	0.050	0.050	0.030	0.100
	-0.030	-0.030	-0.100	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.030	-0.100
Max.	1.100	1.900	8.100	1.800	3.550	4.050	4.050	2.050	1.600	0.630	40.100
Mn.	1.050	1.850	7.900	1.700	3.450	3.950	3.950	1.950	1.500	0.570	39.900



15.Quantity Per Reel

Reel Size	Parts on 178mm Reel
0603	5000 PCS

*Other sizes and chip quantities can be provided upon customer's request.

16.Storage Conditions

- The Maximum ambient temperature shall not exceed 40°C
- The Maximum relative humidity recommended for storage is 70%.

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