

# 深圳市华微讯半导体有限公司

## 承 认 书

### SPECIFICATION FOR APPROVAL

客户名称 Customer name	
客户料号 Customer material No.	
产品名称 Product name	PTC自恢复保险丝
产品型号/规格 specification	
送样日期 Deliver date	

#### 本司确认 (HWX APPROVAL)

检验 Inspection	校对 Proofreading	批准 Approval	签章 Signature
张淑敏	张伟杰		

#### 客户确认 (CUSTOMER APPROVAL)

检验 Inspection	校对 Proofreading	批准 Approval	签章 Signature

确认结果 Verify the results:

合格 Qualified

不合格 Unqualified

其他 Other

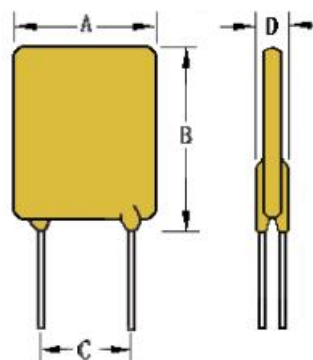
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网址: [www.hwxfuse.com](http://www.hwxfuse.com)

**1、 Description**

H	1	6	-	18	0	0
Logo		16V voltages		Working current		



- 1.1、 Coating color: yellow
- 1.2、 Lead material: Φ 0.8 tin line
- 1.3、 Overall dimensions (max. mm)

A <sub>max</sub>	B <sub>max</sub>	C	D <sub>max</sub>
26.5	32.5	10.2 ± 0.5	3.1

**2、 Electrical performance**

Part Number	V <sub>max</sub>	I <sub>max</sub>	I <sub>hold</sub>	I <sub>trip</sub>	P <sub>dmax</sub>	Max Time Tirp		Resistance		
	(V)	(A)	(A)	(A)	(W)	(A)	(s)	R <sub>min</sub>	R <sub>max</sub>	R <sub>1max</sub>
	(Ω)	(Ω)	(Ω)							
H16-1800	16	100	18.00	36.0	4.2	54.0	30.0	0.002	0.0055	0.0083

- I<sub>h</sub>:** Maximum operating current of the HPTC at an ambient temperature of 25°C
- I<sub>t</sub>:** The HPTC initiated the minimum current for protection at an ambient temperature of 25°C
- V<sub>max</sub>:** Maximum operating voltage of the HPTC
- I<sub>max</sub>:** Maximum current that the HPTC can withstand
- R<sub>min</sub>:** Minimum resistance at 25°C of stationary air
- R<sub>max</sub>:** Maximum device resistance at 25oC prior to tripping.
- R<sub>1max</sub>:** Maximum resistance of product

**3、 Table of Operating Current with Temperature (A) (for reference only)**

Part Number	The working temperature and working current reduction ratio is (°C)									
	-40°C	-20°C	0°C	25°C	30°C	40°C	50°C	60°C	70°C	85°C
H16 Series	137%	130%	119%	100%	91%	83%	77%	68%	61%	52%

#### 4、 Product performance test items and standard requirements

test	condition	resistance variation
Passive aging	+ 85°C, 1,000 hours	$\leq R_{max}$
Humidity aging	+ 85°C, 85%R. H. 1,000 hours	$\leq R_{max}$
thermal shock	+ 125°C to -55°C, 10 times	$\geq R_{min}$

number	project	technical standard	Test conditions and methods
1	zero-power resistance	0.002-0.0055 $\Omega$	25°C $\pm$ 2°C, with still air. Low-resistance tester.
2	Non-action characteristics	Rate of resistance change $\Delta R/R_0 \leq 50\%$	25°C $\pm$ 2°C, still air, and DC16V, 18.0A current for 1 hour. After resting the DC voltage stabilizing source for one hour at 25°C $\pm$ 2°C, retest the zero power resistance value
3	performance characteristic	$t \leq 30s$	25°C $\pm$ 2°C, still air, DC16V/54.0A, DC stabilizer source, stopwatch.
4	Welding heat resistance	No visible post-welding resistance value $R_{lmax} \leq 0.0083 \Omega$	Preheat the 130 $\pm$ 5°C oven for 3min ( $\pm$ 10s), dip the element end into 270 $\pm$ 5°C tin liquid to the root of the element end, hold for 3 seconds, stand in air for 4 seconds, and then soak for 5s. Tin stove, stopwatch. After standing at 25°C $\pm$ 2°C for 4 hours, retest the zero power resistance value.

#### 5、 Package Information

**Tape & Reel: 200pcs/ bag.**

**storage condition:**

**Storage conditions: 30° C max, 60% R.H.Devices may not meet specified performance if storage conditions are exceeded.**

#### 6、 WARNING

- 1、 Use PPTC exceed by the maximum rating and improper use may result in device damage and possible electrical arcing and flame.
- 2、 PPTC are designed for protection against over current or temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- 3、 Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- 4、 Use PPTC with a large inductance in circuit will generate a circuit voltage above the rated voltage of the PPTC.
- 5、 Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.
- 6、 If any quality problems caused by improper use mentioned above,our company is not responsible.