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	郑义铧	王工	
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

地址：深圳市龙华区福城街道丹湖社区人民路231号楼房一301
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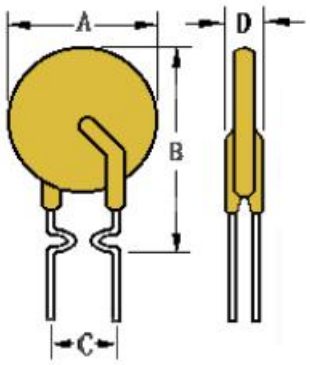
网址：www.hwxfuse.com

1、 Description

H	1	6	-	0	5	0

Logo | 16Vvoltages | Working current



1.1、 Coating color: yellow

1.2、 Lead material: Φ 0.6 tin line

1.3、 Overall dimensions (max. mm)

A_{max}	B_{max}	C	D_{max}
6.0	12.0	5.1±0.5	3.1

2、 Electrical performance

Part Number	Vmax	Imax	Ihold	Itrip	Pdmax	Max Time Tirp		Resistance		
	(V)	(A)	(A)	(A)	(W)	(A)	(s)	Rmin (Ω)	Rmax (Ω)	R1max (Ω)
H16-050	16	100	0.50	1.0	0.56	2.5	10.0	0.2	0.5	0.8

Ih: Maximum operating current of the HPTC at an ambient temperature of 25℃

It: The HPTC initiated the minimum current for protection at an ambient temperature of 25℃

Vmax: Maximum operating voltage of the HPTC

Imax: Maximum current that the HPTC can withstand

Rmin: Minimum resistance at 25℃ of stationary air

Rmax: Maximum device resistance at 25oC prior to tripping.

R1max: 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 (℃)									
	-40℃	-20℃	0℃	25℃	30℃	40℃	50℃	60℃	70℃	85℃
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℃, 1,000 hours	≤R_{max}
Humidity aging	+ 85℃,85%R.H. 1,000 hours	≤R_{max}
thermal shock	+ 125℃ to-55℃, 10 times	≥R_{min}

number	project	technical standard	Test conditions and methods
1	zero-power resistance	0.2-0.5Ω	25℃± 2℃, with still air. Low-resistance tester.
2	Non-action characteristics	Rate of resistance change ΔR/Ro≤50%	25℃± 2℃, still air, and DC16V,0.5A current for 1 hour. After resting the DC voltage stabilizing source for one hour at 25℃± 2℃, retest the zero power resistance value
3	performance characteristic	t≤5s	25℃± 2℃, still air, DC16V/4.0A, DC stabilizer source, stopwatch.
4	Welding heat resistance	No visible post-welding resistance value R1max≤0.8Ω	Preheat the 130 ± 5℃ oven for 3min (± 10s), dip the element end into 270 ± 5℃ 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℃± 2℃ for 4 hours, retest the zero power resistance value.

5、Package Information

Tape & Reel: 1000pcs/ 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.