

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	郑义铎	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

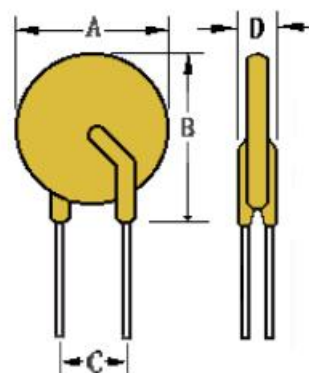
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1、Description

H	7	2	-	1	8	5
Logo		72Vvoltages		Working current		



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

A _{max}	B _{max}	C	D _{max}
15.5	20.5	5.1 ± 0.5	3.1

2、Electrical performance

Part Number	V _{max}	I _{max}	I _{hold}	I _{trip}	P _{dmax}	Max Time Tirp		Resistance		
	(V)	(A)	(A)	(A)	(W)	(A)	(s)	R _{min}	R _{max}	R _{1max}
								(Ω)	(Ω)	(Ω)
H72-185	72	40	1.85	3.7	2.1	9.25	8.0	0.08	0.19	0.29

- I_h:** Maximum operating current of the HPTC at an ambient temperature of 25°C
I_t: The HPTC initiated the minimum current for protection at an ambient temperature of 25°C
V_{max}: Maximum operating voltage of the HPTC
I_{max}: Maximum current that the HPTC can withstand
R_{min}: Minimum resistance at 25°C of stationary air
R_{max}: Maximum device resistance at 25°C prior to tripping.
R_{1max}: 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
H72 Series	147%	136%	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	0.08-0.19 Ω	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 DC72V, 1.85A 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	$t \leq 8s$	25°C $\pm$ 2°C, still air, DC12V/9.25A, DC stabilizer source, stopwatch.
4	Welding heat resistance	No visible post-welding resistance value $R_{l\max} \leq 0.29 \Omega$	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: 1 0 0 0pcs/ 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.