

WF1001A Series

1.00mm pitch/Wire-to-board Connector



Overview

WF1001A series products are 1.00mm pitch crimp type, belt. It is designed with an anti-mating structure to provide high performance, vibration resistance, and equipment. Wire-to-board connectors that provide signal transmission.

Features and Benefits

- With fixing tabs to enhance the stability of the welding plate
- It is equipped with a boss to prevent misinsertion
- Small size, high density
- Vertical and horizontal connections, reflecting the diversity of connections

Product Applications

- Industrial: Industrial Control & Automation

Standard 标准

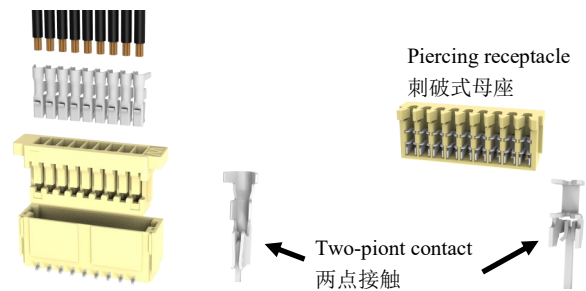
- IEC 60512, EIA-364

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Housing/主体	PBT	Black/黑色 White/白色	UL94V-0
Header/板端	PA9T	Beige/米黄色	UL94V-0
Terminal/端子	phosphor bronze 磷铜 (C5191)	Au or Tin plated 镀金或镀锡	-

WF1001A 系列

1.00mm 间距/线到板连接器



概述

WF1001A 系列产品是一款 1.00mm 间距压着型、带有防错插结构设计，可提供高性能、抗振动，为设备提供信号传输的线到板连接器。

产品特点

- 带有固定片，增强焊板稳定性
- 设有凸台防呆，防止错插
- 小体积、高密度
- 垂直和水平连接，体现连接多样性

应用领域

- 工业：工业控制与自动化

UL certification UL 认证

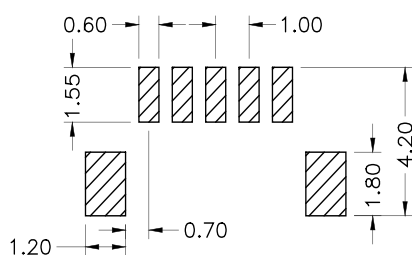
- E248993

Production Specifications 产品规格

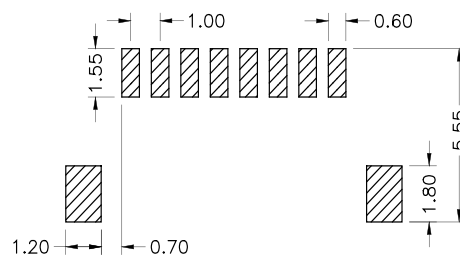
Current rating 额定电流	1.0 A	Operating temperature Range:-40° C~+105° C (including temperature rise) Operating Humidity Range:20-80% 工作温度范围: -40° C~+105° C(含温升) 工作湿度范围: 20-80%	Storage temperature: Operating Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	50V		
Item 项目	Condition 条件	Specification 规格	
Insulation Resistance 绝缘电阻	Measured at 500V DC for 1 minute 测试电压: 500V DC/1分钟	No less than 100MΩ 不少于100MΩ	
Withstanding voltage 耐电压	Measured at 500V AC for 1 minute 测试电压: 500V AC/1分钟	No breakdown, no discharge, leakage current <0.5mA 无击穿、无放电、漏电流<0.5mA	
Contact Resistance 接触电阻	Measured at 100mA and no higher than 20mV 用20 mV DC进行测量	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 40 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 40 mΩ 以下	
Vibration Resistance 抗振动	Frequency : 50 ~ 2000 Hz PSD value : 5.35 Gms minimum Duration : 15 minutes/axis Times : Each of three mutually perpendicular planes. 频率: 50 ~ 2000 Hz PSD 值: 5.35 Gms 时长: 15分钟/轴 次数: 3次	No electrical discontinuity of 1μs or greater 试验过程中未发生1μs瞬断现象, 且外观无损伤, 电气性能正常	
Humidity (Steady state) 湿度	Temperature : 25~65°C Humidity: 90 ~95% (R.H) Duration : 96 hours 温度: 25~65° C 湿度: 90 ~95% (R.H) 时间: 96小时	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 40 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 40 mΩ 以下	
Salt Spry 盐雾	Temperature:35±2°C Humidity:95~98%(R.H) PHValue : 6.5 ~ 7.2 Duration : 12hours 温度: 35±2° C 湿度: 95~98%(R.H) PH值: 6.5~7.2 时间: 12小时	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 40 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 40 mΩ 以下	
Durability(Mating/un-mating) 插拔寿命	50 cycles 循环50次	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 40 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 40 mΩ 以下	

PCB Layout 印刷电路板布局

(S/T)SMT type 表面贴装型



(R/A)SMT type 表面贴装



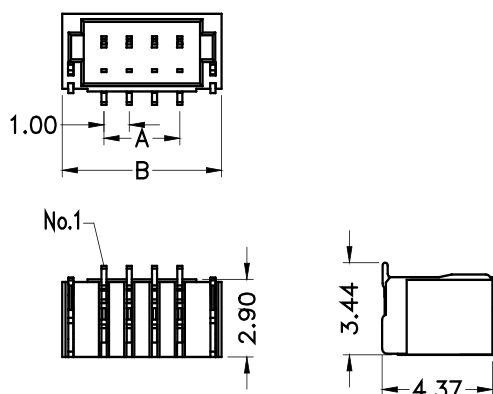
WF1001A Series

Ordering Information 订购信息

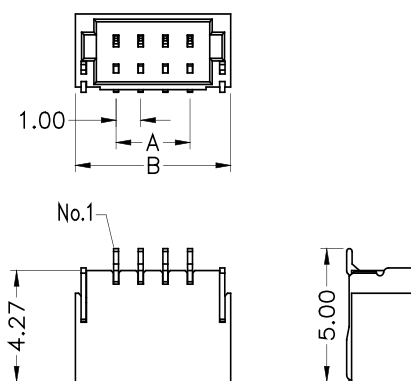
Circuit 芯数	Part number 型号		Dimensions 尺寸 (mm)		Package 包装 Q'ty/Reel 只/卷装		Remake 可量产状态	
	S/T SMT	R/A SMT	A	B	S/T SMT	R/A SMT	S/T SMT	R/A SMT
2	WF1001A-WM02ER1	WF1001A-WZ02ER1	1.00	4.30	1000	1000	*	*
3	WF1001A-WM03ER1	WF1001A-WZ03ER1	2.00	5.30	1000	1000	*	*
4	WF1001A-WM04ER1	WF1001A-WZ04ER1	3.00	6.30	1000	1000	*	*
5	WF1001A-WM05ER1	WF1001A-WZ05ER1	4.00	7.30	1000	1000	*	*
6	WF1001A-WM06ER1	WF1001A-WZ06ER1	5.00	8.30	1000	1000	*	*
7	WF1001A-WM07ER1	WF1001A-WZ07ER1	6.00	9.30	1000	1000	*	*
8	WF1001A-WM08ER1	WF1001A-WZ08ER1	7.00	10.30	1000	1000	*	*
9	WF1001A-WM09ER1	WF1001A-WZ09ER1	8.00	11.30	1000	1000	*	*
10	WF1001A-WM10ER1	WF1001A-WZ10ER1	9.00	12.30	1000	1000	*	*
11	WF1001A-WM11ER1	WF1001A-WZ11ER1	10.00	13.30	1000	1000	*	*
12	WF1001A-WM12ER1	WF1001A-WZ12ER1	11.00	14.30	1000	1000	*	*
13	WF1001A-WM13ER1	WF1001A-WZ13ER1	12.00	15.30	1000	1000	*	*
14	WF1001A-WM14ER1	WF1001A-WZ14ER1	13.00	16.30	1000	1000	*	*
15	WF1001A-WM15ER1	WF1001A-WZ15ER1	14.00	17.30	1000	1000	*	*
16	WF1001A-WM16ER1	WF1001A-WZ16ER1	15.00	18.30	1000	1000	*	*
17	WF1001A-WM17ER1	WF1001A-WZ17ER1	16.00	19.30	1000	1000	*	*
18	WF1001A-WM18ER1	WF1001A-WZ18ER1	17.00	20.30	1000	1000	*	*
19	WF1001A-WM19ER1	WF1001A-WZ19ER1	18.00	21.30	1000	1000	*	*
20	WF1001A-WM20ER1	WF1001A-WZ20ER1	19.00	22.30	1000	1000	*	*

Note: * stands for mass production . 注: *代表可量产

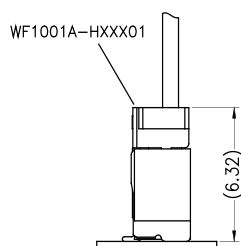
Dimensions 尺寸(S/T SMT)



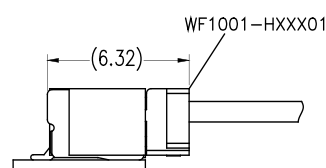
Dimensions 尺寸(R/A SMT)



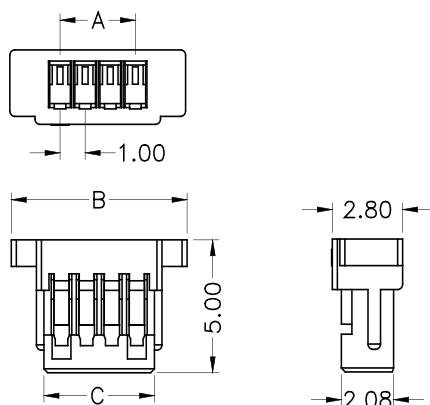
Assembly Schematic 装配示意



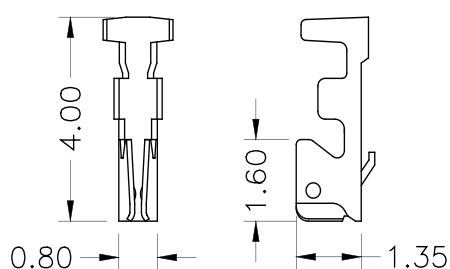
Assembly Schematic 装配示意



Dimensions 尺寸



Adaptor Terminal 适配端子



型 号 Model number	WF1001-TPXX01
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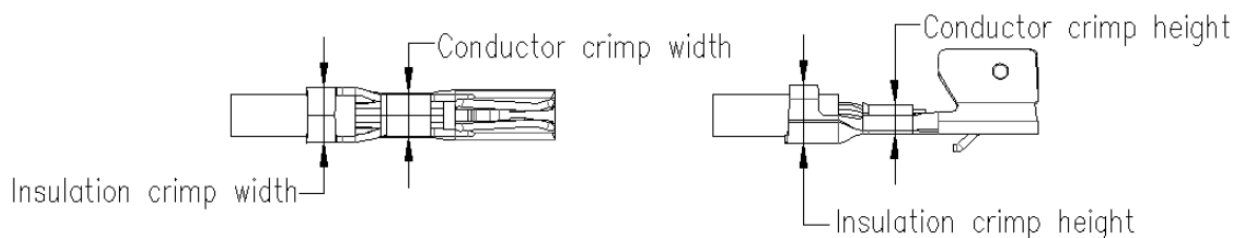
Ordering Information 订购信息

Circuit 芯数	Part number 型号	Dimensions 尺寸 (mm)			Package 包装 Q'ty/Bag 只/袋装	Remake 可量产状态
		A	B	C		
2	WF1001-H02X01	1.00	5.00	2.40	1,000	*
3	WF1001-H03X01	2.00	6.00	3.40	1,000	*
4	WF1001-H04X01	3.00	7.00	4.40	1,000	*
5	WF1001-H05X01	4.00	8.00	5.40	1,000	*
6	WF1001-H06X01	5.00	9.00	6.40	1,000	*
7	WF1001-H07X01	6.00	10.00	7.40	1,000	*
8	WF1001-H08X01	7.00	11.00	8.40	1,000	*
9	WF1001-H09X01	8.00	12.00	9.40	1,000	
10	WF1001-H10X01	9.00	13.00	10.40	1,000	*
11	WF1001-H11X01	10.00	14.00	11.40	1,000	*
12	WF1001-H12X01	11.00	15.00	12.40	1,000	*
13	WF1001-H13X01	12.00	16.00	13.40	1,000	*
14	WF1001-H14X01	13.00	17.00	14.40	1,000	*
15	WF1001-H15X01	14.00	18.00	15.40	1,000	*
16	WF1001-H16X01	15.00	19.00	16.40	1,000	*
17	WF1001-H17X01	16.00	20.00	17.40	1,000	
18	WF1001-H18X01	17.00	21.00	18.40	1,000	
19	WF1001-H19X01	18.00	22.00	19.40	1,000	
20	WF1001-H20X01	19.00	23.00	20.40	1,000	*

Note: * stands for mass production . 注: *代表可量产

Terminal Crimp specification 端子压接规范

型 号 Model number	电线类型 Wire type	电线规格 Wire size	线缆 OD (mm) Cable OD (mm)	剥线长度 (mm) Strip length (mm)	导体铆压 (A-A) Conductor crimp		绝缘体铆压 (B-B) Insulation crimp	
					压接宽度CW1(mm) Crimping width (mm)	压接高度CH1(mm) Crimping height (mm)	压接宽度CW2(mm) Crimping width (mm)	压接高度CH2(mm) Crimping height (mm)
WF1001-TPXX01	UL3302	28#AWG	0.80±0.10	1.5±0.50	0.70 ±0.03	0.50 ±0.03	0.80mm REF.	1.00mm REF.
	UL3302	30#AWG	0.70±0.10		0.70 ±0.03	0.48±0.03	0.80mm REF.	1.00mm REF.
	UL3302	32#AWG	0.60±0.10		0.70 ±0.03	0.45±0.03	0.80mm REF.	1.00mm REF.



WF1001A Series

Model number allocation 型号命名

WF1001A	-	XX	XX	E	R	1
(1)		(2)	(3)	(4)	(5)	(6)
(1) Series (系列): Wafer 1.00mm Series				(4) Color(颜色): E=Beige		
(2) Terminal type (端子形态): WM=S/T SMT WZ=R/A SMT				(5) Packing (包装): R=Tape&Reel		
(3) Circuit (位数): 02=2P.....20=20P				(6) Internal code (流水码)		

WF1001	-	H	XX	X	0	1
(1)		(2)	(3)	(4)	(5)	(6)
(1) Series (系列): Wafer 1.00mm Series				(4) Color(颜色): W=White、B=Black		
(2) Product type (产品类型): H=Crimp Type Housing				(5) Packing (包装): 0=PE Bag		
(3) Circuit (位数): 02=2P.....20=20P				(6) Internal code (流水码)		

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