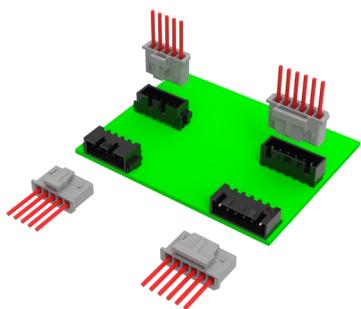


WF2501A Series WF2501A系列

2.50mm pitch/Wire-to-board Connector 2.50mm间距/线到板连接器

Single-point contact
单点接触**Overview**

WF2501A is a 2.50mm pitch wire to board connector, the product has both high density, high performance, high integration and other advantages, can effectively ensure the stability of the signal transmission and integrity, the board end to provide horizontal and vertical direction of the board mounting, to meet the customer's different angles of the insertion of the adapter.

概述

WF2501A是一款2.50mm间距线到板连接器，产品兼具高密度、高性能，高集成等优点，能有效确保信号传输的稳定性以及完整性，板端提供水平及垂直方向贴板安装，满足客户不同角度对插适配。

Features and Benefits

- Small size and high integration
- Mis-insertion-proof design to avoid mis-insertion effectively
- Straight pin, curved pin and horizontal sticker available
- Auxiliary fixings to improve retention with PCBs

产品特点

- 产品体积小，集成度高
- 防错插设计、有效避免错插
- 提供直针、弯针、卧贴供选择
- 辅助固定件，提高与PCB保持力

Product Applications

- Industrial equipment: automation equipment, robotics and control systems, sensors, control units
- Computers: motherboards, fans, hard drives
- Lighting equipment: LED lamps, lighting systems

应用领域

- 工业设备：自动化设备、机器人与控制系统、传感器、控制单元
- 计算机：主板、风扇、硬盘
- 照明设备：LED灯具、照明系统

Standard 标准

- EIA 364

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Housing/主体	PA66	White/白色 Black/黑色	UL94V-0
Header/板端	PA66/PA46/PA9T	Natural/本色 White/白色 Black/黑色	UL94V-0
Terminal/端子	phosphor bronze 磷铜 (C5191)	Au or Sn plated 镀金或锡	-

Production Specifications 产品规格

Current rating 额定电流	3.0 A	Operating Temperature Range:-40° C~+105° (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: ≤80%	Storage Teroerature: Operating Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	250V		

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 1000M Ω 不少于1000MΩ
Withstanding voltage 耐电压	Measured at 1000V AC for 1 minute 测试电压: 1000V 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 1mA and no higher than 20mV 用20 mV DC进行测量	Contact resistance: Initial value/ 20 mo max After environmental tests/ 30 mo max. 接触电阻: 初始值 20 mΩ 以下 测试后 30 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 1μsorgreater 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 mo max After environmental tests/ 30 mo max. 接触电阻: 初始值 20 mΩ 以下 测试后 30 mΩ 以下
Salt Spray 盐雾	Temperature:35#2°C Humidity:95~98%(R.H) PHValue : 6.5 ~ 7.2 Duration : 48hours (Gold Area) 温度: 35±2° C 湿度: 95~98%(R.H) PH值: 6.5~7.2 时间: 48小时(镀金区)	Contact resistance: Initial value/ 20 mo max After environmental tests/ 30 mo max. 接触电阻: 初始值 20 mΩ 以下 测试后 30 mΩ 以下
Durability(Mating/un-mating) 插拔寿命	30 cycles 循环30次	Contact resistance: Initial value/ 20 mo max After environmental tests/ 30 mo max. 接触电阻: 初始值 20 mΩ 以下 测试后 30 mΩ 以下

PCB Layout 印刷电路板布局

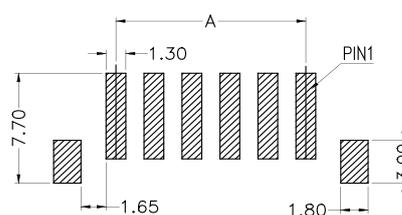
Through-hole type 通孔型

(S/T DIP、R/A DIP)

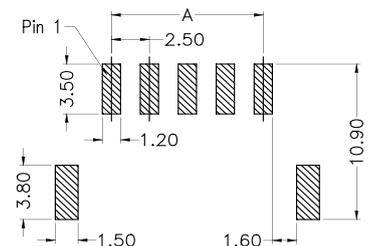


SMT type 表面贴装型

S/T SMT



R/A SMT



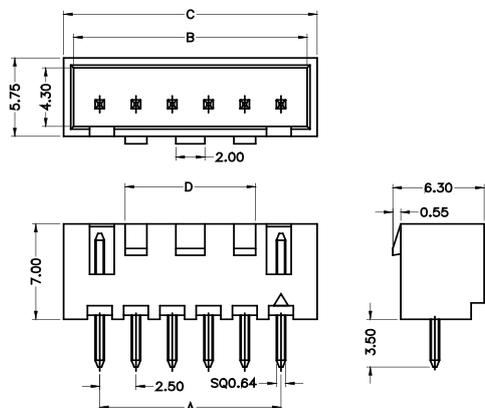
WF2501A Series

Ordering Information 订购信息

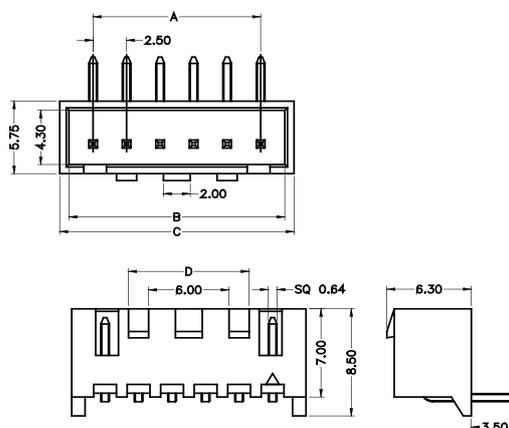
Circuit 芯数	Part number 型号		Dimensions 尺寸 (mm)				Package 包装 Q'ty/Bag 只/袋装		Remake 可量产状态	
	S/T DIP	R/A DIP	A	B	C	D	S/T DIP	R/A DIP	S/T DIP	R/A DIP
2	WF2501A-WS02X01	WF2501A-WR02X01	2.50	6.10	7.48	/	1000	1000	*	*
3	WF2501A-WS03X01	WF2501A-WR03X01	5.00	8.60	9.98	/	1000	1000	*	*
4	WF2501A-WS04X01	WF2501A-WR04X01	7.50	11.10	12.48	/	500	500	*	*
5	WF2501A-WS05X01	WF2501A-WR05X01	10.00	13.60	14.98	/	500	500	*	*
6	WF2501A-WS06X01	WF2501A-WR06X01	12.50	16.10	17.48	9.00	500	500	*	*
7	WF2501A-WS07X01	WF2501A-WR07X01	15.00	18.60	19.98	10.70	500	500	*	*
8	WF2501A-WS08X01	WF2501A-WR08X01	17.50	21.10	22.48	10.70	500	500	*	*
9	WF2501A-WS09X01	WF2501A-WR09X01	20.00	23.60	24.98	10.70	200	300	*	*
10	WF2501A-WS10X01	WF2501A-WR10X01	22.50	26.10	27.48	15.70	400	300	*	*
11	WF2501A-WS11X01	WF2501A-WR11X01	25.00	28.+60	29.98	15.70	400	300	*	*
12	WF2501A-WS12X01	WF2501A-WR12X01	27.50	31.10	32.48	15.70	400	300	*	*
13	WF2501A-WS13X01	WF2501A-WR13X01	30.00	33.60	34.98	15.70	400	200	*	*
14	WF2501A-WS14X01	WF2501A-WR14X01	32.50	36.10	37.48	15.70	400	200	*	*
15	WF2501A-WS15X01	WF2501A-WR15X01	35.00	38.60	39.98	15.70	400	200	*	*
16	WF2501A-WS16X01	WF2501A-WR16X01	37.50	41.10	42.42	15.70	400	200	*	*

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

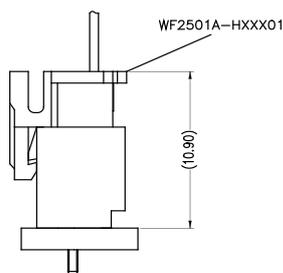
Dimensions 尺寸 (S/T DIP)



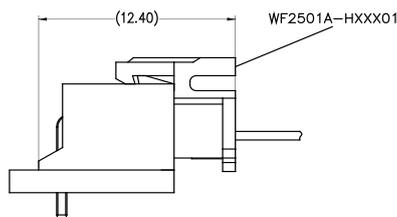
Dimensions 尺寸 (R/A DIP)



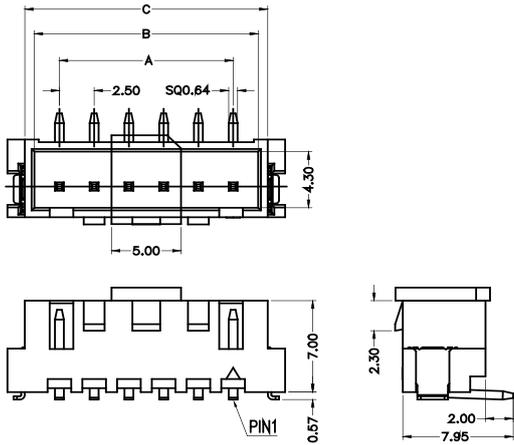
Assembly Schematic 装配示意



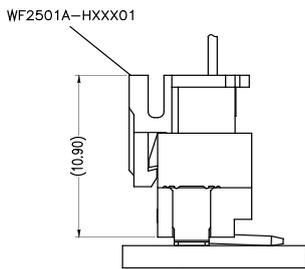
Assembly Schematic 装配示意



Dimensions 尺寸 (S/T SMT)



Assembly Schematic 装配示意

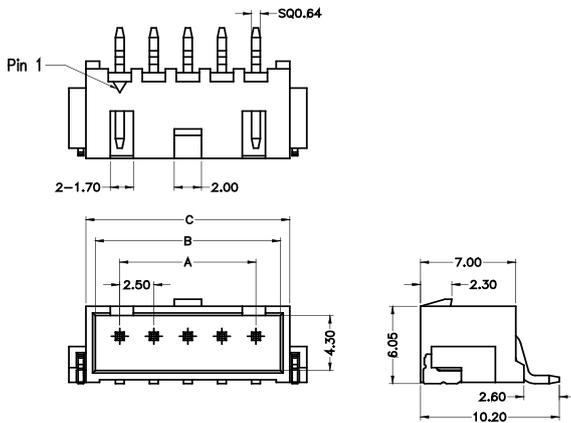


Ordering Information 订购信息

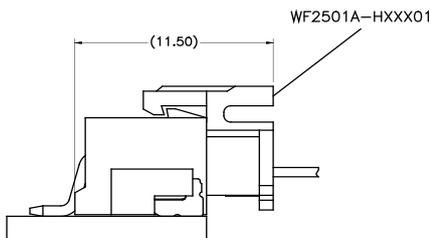
Circuit 芯数	Part number 型号	Dimensions 尺寸 (mm)			Parkage 包装 Q'ty/Reel 只/卷装	Remake 可量产状态
		A	B	C		
2	WF2501A-WMH02TR1	2.50	6.10	7.48	450	*
3	WF2501A-WMH03TR1	5.00	8.60	9.98	450	*
4	WF2501A-WMH04TR1	7.50	11.10	12.48	450	*
5	WF2501A-WMH05TR1	10.00	13.60	14.98	450	*
6	WF2501A-WMH06TR1	12.50	16.10	17.48	450	*
7	WF2501A-WMH07TR1	15.00	18.60	19.98	450	*
8	WF2501A-WMH08TR1	17.50	21.10	22.48	450	*
9	WF2501A-WMH09TR1	20.00	23.60	24.98	450	*
10	WF2501A-WMH10TR1	22.50	26.10	27.48	450	*
11	WF2501A-WMH11TR1	25.00	28.60	29.98	450	*
12	WF2501A-WMH12TR1	27.50	31.10	32.48	450	*
13	WF2501A-WMH13TR1	30.00	33.60	34.98	450	*
14	WF2501A-WMH14TR1	32.50	36.10	37.48	450	*
15	WF2501A-WMH15TR1	35.00	38.60	39.98	450	*
16	WF2501A-WMH16TR1	37.50	41.10	42.48	450	*

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

Dimensions 尺寸 (R/A SMT)



Assembly Schematic 装配示意



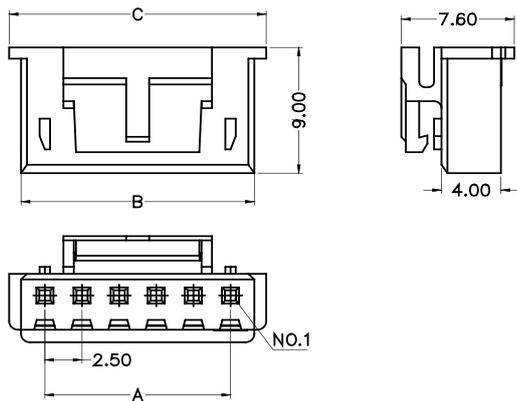
Ordering Information 订购信息

Circuit 芯数	Part number 型号	Dimensions 尺寸 (mm)			Parkage 包装 Q'ty/Reel 只/卷装	Remake 可量产状态
		A	B	C		
2	WF2501A-WZH02TR1	2.50	6.10	7.48	550	*
3	WF2501A-WZH03TR1	5.00	8.60	9.98	550	*
4	WF2501A-WZH04TR1	7.50	11.10	12.48	550	*
5	WF2501A-WZH05TR1	10.00	13.60	14.98	550	*
6	WF2501A-WZH06TR1	12.50	16.10	17.48	550	*
7	WF2501A-WZH07TR1	15.00	18.60	19.98	550	*
8	WF2501A-WZH08TR1	17.50	21.10	22.48	550	*
9	WF2501A-WZH09TR1	20.00	23.60	24.98	550	*
10	WF2501A-WZH10TR1	22.50	26.10	27.48	550	*
11	WF2501A-WZH11TR1	25.00	28.60	29.98	550	*
12	WF2501A-WZH12TR1	27.50	31.10	32.48	550	*
13	WF2501A-WZH13TR1	30.00	33.60	34.98	550	*
14	WF2501A-WZH14TR1	32.50	36.10	37.48	550	*
15	WF2501A-WZH15TR1	35.00	38.60	39.98	550	*
16	WF2501A-WZH16TR1	37.50	41.10	42.48	700	*

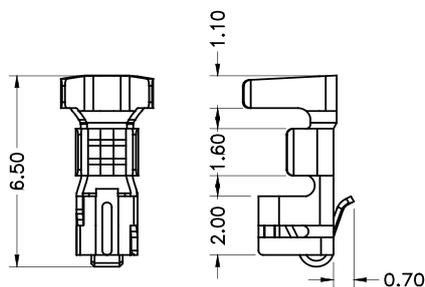
Note: * stands for mass production . 注: *代表可量产

WF2501A Series

Dimensions 尺寸



Adaptor Terminal 适配端子



型号	WF2501-TPXX03
Model number	WF2501-TPXX05

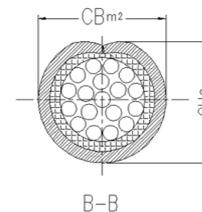
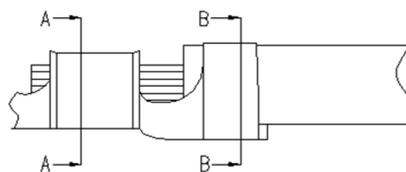
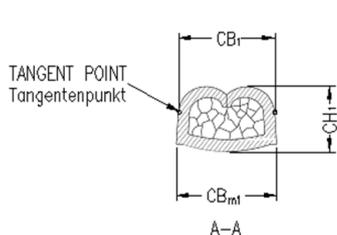
Ordering Information 订购信息

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	WF2501A-H02X01	2.50	5.70	7.30	1000	*
3	WF2501A-H03X01	5.00	8.20	9.80	1000	*
4	WF2501A-H04X01	7.50	10.70	12.30	1000	*
5	WF2501A-H05X01	10.00	13.20	14.80	1000	*
6	WF2501A-H06X01	12.50	15.70	17.30	1000	*
7	WF2501A-H07X01	15.00	18.20	19.80	1000	*
8	WF2501A-H08X01	17.50	20.70	22.30	500	*
9	WF2501A-H09X01	20.00	23.20	24.80	500	*
10	WF2501A-H10X01	22.50	25.70	27.30	500	*
11	WF2501A-H11X01	25.00	28.20	29.80	500	*
12	WF2501A-H12X01	27.50	30.70	32.30	500	*
13	WF2501A-H13X01	30.00	33.20	34.80	500	*
14	WF2501A-H14X01	32.50	35.70	37.30	500	*
15	WF2501A-H15X01	35.00	38.20	39.80	500	*
16	WF2501A-H16X01	37.50	40.70	42.30	500	*
17	WF2501A-H17X01	40.00	43.20	44.80	500	*
18	WF2501A-H18X01	42.50	45.70	47.30	500	*
19	WF2501A-H19X01	45.00	48.20	49.80	500	*
20	WF2501A-H20X01	47.50	50.70	52.30	500	*

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CB1 Crimping width CB1±0.03mm	压接宽度CBm1 Crimping height CBm1+0.05mm	压接高度 Crimping height CH1±0.03mm	压接宽度CBm2 Crimping width CBm2±0.05mm	压接高度CH2 Crimping width CH2±0.08mm
WF2501-TPXX03	UL 3266	22 AWG	1.60	2.30±0.10mm	1.40	1.44	0.732	1.89	1.77
	UL 1569	24 AWG	1.40		1.30	1.34	0.61	1.89	1.64
WF2501-TPXX05	UL 1061	26 AWG	1.20		1.00	1.05	0.74	1.85	1.39
	UL 1007	28 AWG	0.70		1.00	1.03	0.60	1.85	1.42



Model number allocation 型号命名

WF2501A	-	XX	(H)	XX	X	X	1
(1)		(2)	(3)	(4)	(5)	(6)	(7)
(1) Series (系列): Wafer 2.50mm Series					(5) Color(颜色): W=White、B=Black、T=Natural		
(2) Terminal type (端子形态): WS=S/T DIP WR=R/A DIP WM=S/T SMT WZ=R/A SMT					(6) Packing(包装): 0=PE Bag、T=Tuble、R=Reel		
(3) material(材质): H=High temperature material 高温料 Blank=Low temperature material 低温料					(7) Internal code(流水码)		
(4) Circuit(位数): 02=2.....16=16P							

WF2501A	-	H	XX	X	0	1
(1)		(2)	(3)	(4)	(5)	(6)
(1) Series (系列): Wafer 2.50mm 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=2.....20=20P				(6) Internal code(流水码)		

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Official Website



Product e-catalog



WeChat Public#



TikTok Public#