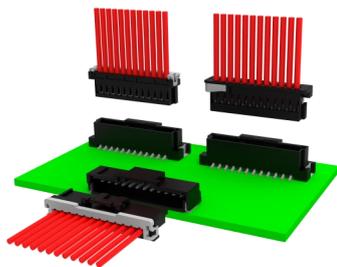


## WF2012 Series

## WF2012系列

2.00mm pitch/Wire-to-board Connector

2.00mm间距/线到板连接器



Two-point contact  
两点接触

### Overview

WF2012 series products are 2.00mm pitch high density, small size, double contact design can give the product contact stability, vibration resistance, shock resistance, The ISL and TPA designs enable more reliable connections to automotive-grade wire-to-board connectors.

### 概述

WF2012系列产品是一款2.00mm间距高密度、小体积，双触点的设计能给予产品接触稳定、抗振动、耐冲击的性能，ISL与TPA设计使连接更加可靠的车规级线到板连接器。

### Features and Benefits

- Flexible and versatile installation methods
- Double bottoming design, stable contact
- Small size, high density
- Vibration and shock resistant

### 产品特点

- 灵活多样的安装方式
- 双触底设计、接触稳定
- 小体积、高密度
- 抗振动、耐冲击

### Product Applications

- Automotive: Electric Drive Control System, Headlight control system
- Industrial: Industrial automation, Processing equipment
- Smart Buildings: Lighting control, Scene control

### 应用领域

- 汽车：电驱控制系统、车灯控制系统
- 工业：工业自动化、加工设备
- 智能楼宇：灯光控制、场景控制

### Standard 标准

- SAE/USCAR-2, IEC 60512, IEC60068

### UL certification UL认证

- E248993

### Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Housing/主体	PA66/PBT	Natural/本色 Black/黑色	UL94V-0
Header/板端	PA9T	Red/红色 Black/黑色 Natural/本色 Blue/蓝色	UL94V-0
Terminal/端子	phosphor bronze 磷铜 (C5191)	Tin plated 镀锡	-
ISL/TPA/二次锁止机构	PBT	Gray/灰色	UL94V-0

Production Specifications 产品规格

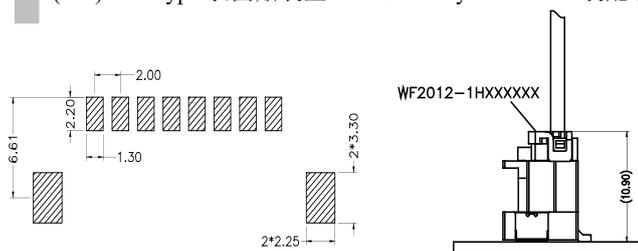
Current rating 额定电流	3.0 A at 75°C	Operating temperature Range:-40° C~+125° C (including temperature rise) Operating Humidity Range:20-80% 工作温度范围: -40° C~+125° C(含温升) 工作湿度范围: 20-80%	Storage temperature: Operating Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	125V		

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 1000MΩ 不少于1000MΩ
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/ 10 mΩ max After environmental tests/ 20 mΩ max. 接触电阻: 初始值 10 mΩ 以下 测试后 20 mΩ 以下
Vibration Resistance 抗振动	Frequency : 10 ~ 2000 Hz Acceleration : 181 m/s <sup>2</sup> Duration : 24 hours /axis Vibration : X、Y、Z 频率: 10 ~ 2000 Hz 加速度: 181 m/s <sup>2</sup> 时长: 24小时/轴 振动方向: X、Y、Z	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 : -40° C~125° C Humidity: 90 ~95% (R.H) Duration : 320 hours 温度: -40° C~125° C 湿度: 90~95% (R.H) 时间: 320小时	Contact resistance: Initial value/ 10 mΩ max After environmental tests/ 20 mΩ max. 接触电阻: 初始值 10 mΩ 以下 测试后 20 mΩ 以下
Salt Spry 盐雾	Temperature:35± 2°C Solution concentration : 5%NaCl PHValue : 6.5 ~ 7.2 Duration : 24hours 温度: 35±2° C 溶液浓度: 5%NaCl PH值: 6.5~7.2 时间: 24小时	Contact resistance: Initial value/ 10 mΩ max After environmental tests/ 20 mΩ max. 接触电阻: 初始值 10 mΩ 以下 测试后 20 mΩ 以下
Durability(Mating/un-mating) 插拔寿命	30 cycles 循环30次	Contact resistance: Initial value/ 10 mΩ max After environmental tests/ 20 mΩ max. 接触电阻: 初始值 10 mΩ 以下 测试后 20 mΩ 以下

PCB Layout 印刷电路板布局

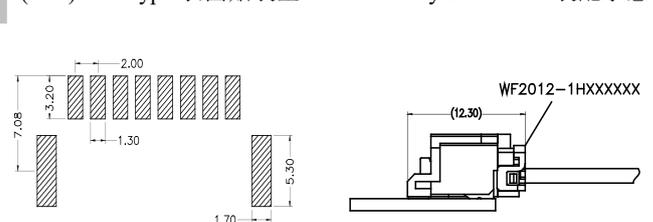
(S/T)SMT type 表面贴装型

Assembly Schematic 装配示意



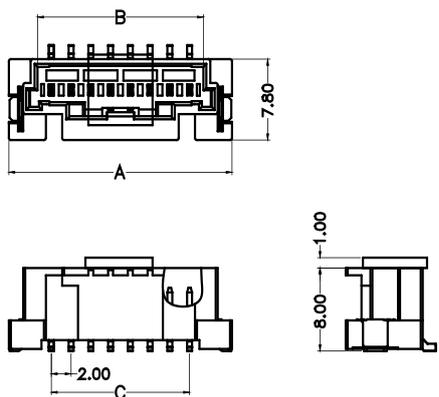
(R/A)SMT type 表面贴装型

Assembly Schematic 装配示意



# WF2012 Series

## Dimensions 尺寸 (S/T SMT)

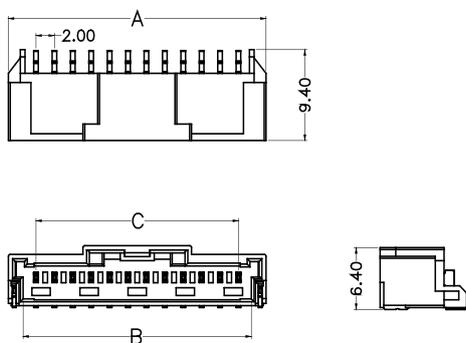


## Ordering Information 订购信息

Circuit 芯数	Part number 型号 S/T SMT	Dimensions 尺寸 (mm)			Package 包装 Qty/Reel 只/ 卷装	Remake 可量产状态
		A	B	C		
2	WF2012-1WMH02XX1	10.90	4.80	2.00	330	*
3	WF2012-1WMH03XX1	12.60	6.80	4.00	330	*
4	WF2012-1WMH04XX1	14.60	8.80	6.00	330	*
5	WF2012-1WMH05XX1	16.60	10.80	8.00	330	*
6	WF2012-1WMH06XX1	18.60	12.80	10.00	330	*
7	WF2012-1WMH07XX1	20.60	14.80	12.00	330	*
8	WF2012-1WMH08XX1	22.60	16.80	14.00	330	*
9	WF2012-1WMH09XX1	24.60	18.80	16.00	330	*
10	WF2012-1WMH10XX1	26.60	20.80	18.00	330	*
11	WF2012-1WMH11XX1	28.60	22.80	20.00	330	*
12	WF2012-1WMH12XX1	30.60	24.80	22.00	330	*
13	WF2012-1WMH13XX1	32.60	26.80	24.00	330	*
14	WF2012-1WMH14XX1	34.60	28.80	26.00	330	*
15	WF2012-1WMH15XX1	36.60	30.80	28.00	330	*

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

## Dimensions 尺寸 (R/A SMT)

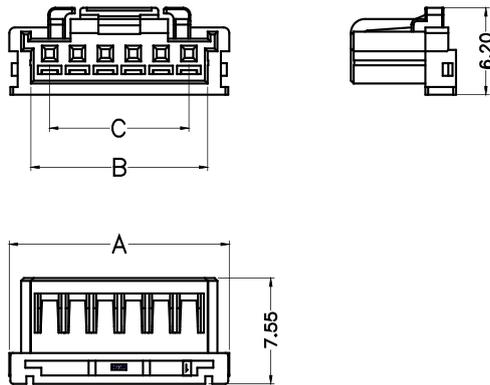


## Ordering Information 订购信息

Circuit 芯数	Part number 型号 R/A SMT	Dimensions 尺寸 (mm)			Package 包装 Qty/Reel 只/ 卷装	Remake 可量产状态
		A	B	C		
2	WF2012-1WZH02XX1	8.00	4.80	2.00	550	*
3	WF2012-1WZH03XX1	10.00	6.80	4.00	550	*
4	WF2012-1WZH04XX1	12.00	8.80	6.00	550	*
5	WF2012-1WZH05XX1	14.00	10.80	8.00	550	*
6	WF2012-1WZH06XX1	16.00	12.80	10.00	550	*
7	WF2012-1WZH07XX1	18.00	14.80	12.00	550	*
8	WF2012-1WZH08XX1	20.00	16.80	14.00	550	*
9	WF2012-1WZH09XX1	22.00	18.80	16.00	550	*
10	WF2012-1WZH10XX1	24.00	20.80	18.00	550	*
11	WF2012-1WZH11XX1	26.00	22.80	20.00	550	*
12	WF2012-1WZH12XX1	28.00	24.80	22.00	550	*
13	WF2012-1WZH13XX1	30.00	26.80	24.00	550	*
14	WF2012-1WZH14XX1	32.00	28.80	26.00	550	*
15	WF2012-1WZH15XX1	34.00	30.80	28.00	550	*

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

Dimensions 尺寸

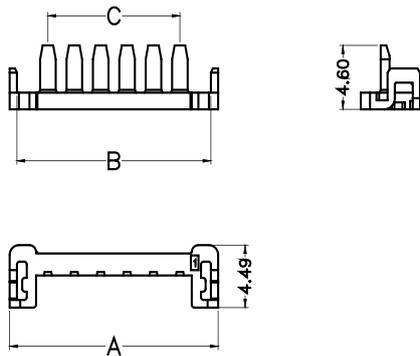


Ordering Information 订购信息

Circuit 芯数	Part number 型号	Dimensions 尺寸 (mm)			Parkage 包装 Q'ty/Bag 只/袋装	Remake 可量产状态
		A	B	C		
2	WF2012-1H02X01	8.00	4.70	2.00	1000	*
3	WF2012-1H03X01	9.80	6.70	4.00	1000	*
4	WF2012-1H04X01	11.80	8.70	6.00	600	*
5	WF2012-1H05X01	13.80	10.70	8.00	600	*
6	WF2012-1H06X01	15.80	12.70	10.00	600	*
7	WF2012-1H07X01	17.80	14.70	12.00	600	*
8	WF2012-1H08X01	19.80	16.70	14.00	600	*
9	WF2012-1H09X01	21.80	18.70	16.00	400	*
10	WF2012-1H10X01	23.80	20.70	18.00	400	*
11	WF2012-1H11X01	25.80	22.70	20.00	300	*
12	WF2012-1H12X01	27.80	24.70	22.00	300	*
13	WF2012-1H13X01	29.80	26.70	24.00	200	*
14	WF2012-1H14X01	31.80	28.70	26.00	200	*
15	WF2012-1H15X01	33.80	30.70	28.00	200	*

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

Dimensions 尺寸

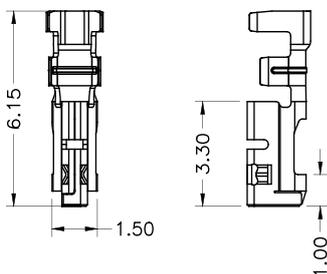


Ordering Information 订购信息

Circuit 芯数	Part number 型号	Dimensions 尺寸 (mm)			Parkage 包装 Q'ty/Bag 只/袋装	Remake 可量产状态
		A	B	C		
2	GWF2012-1C02G01	7.80	6.70	2.00	1000	*
3	GWF2012-1C03G01	9.80	8.70	4.00	800	*
4	GWF2012-1C04G01	11.80	10.70	6.00	600	*
5	GWF2012-1C05G01	13.80	12.70	8.00	600	*
6	GWF2012-1C06G01	15.80	14.70	10.00	600	*
7	GWF2012-1C07G01	17.80	16.70	12.00	600	*
8	GWF2012-1C08G01	19.80	18.70	14.00	600	*
9	GWF2012-1C09G01	21.80	20.70	16.00	600	*
10	GWF2012-1C10G01	23.80	22.70	18.00	500	*
11	GWF2012-1C11G01	25.80	24.70	20.00	500	*
12	GWF2012-1C12G01	27.80	26.70	22.00	400	*
13	GWF2012-1C13G01	29.80	28.70	24.00	300	*
14	GWF2012-1C14G01	31.80	30.70	26.00	200	*
15	GWF2012-1C15G01	33.80	32.70	28.00	200	*

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

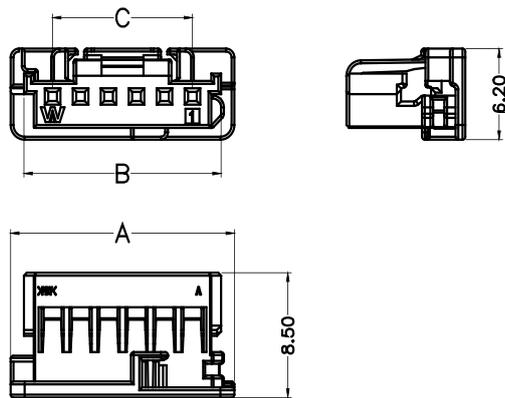
Adaptor Terminal 适配端子



型号 Model number	WF2012-TPSN01
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## WF2012 Series

### Dimensions 尺寸

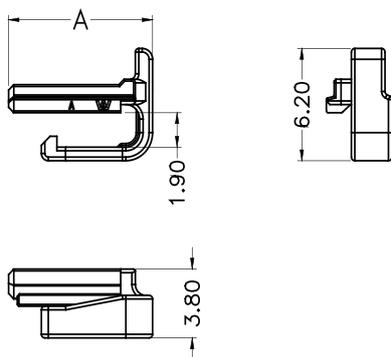


### Ordering Information 订购信息

Circuit 芯数	Part number 型号	Dimensions 尺寸 (mm)			Package 包装 Qty/Bag 只/袋装	Remake 可量产状态
		A	B	C		
2	WF2012-1H02X02W	8.00	6.10	2.00	1000	*
3	WF2012-1H03X02W	10.00	8.10	4.00	1000	*
4	WF2012-1H04X02W	12.00	10.10	6.00	1000	*
5	WF2012-1H05X02W	14.00	12.10	8.00	500	*
6	WF2012-1H06X02W	16.00	14.10	10.00	500	*
7	WF2012-1H07X02W	18.00	16.10	12.00	500	*
8	WF2012-1H08X02W	20.00	18.10	14.00	500	*
9	WF2012-1H09X02W	22.00	20.10	16.00	500	*
10	WF2012-1H10X02W	24.00	22.10	18.00	500	*
11	WF2012-1H11X02W	26.00	24.10	20.00	500	*
12	WF2012-1H12X02W	28.00	26.10	22.00	500	*
13	WF2012-1H13X02W	30.00	28.10	24.00	500	*
14	WF2012-1H14X02W	32.00	30.10	26.00	500	*
15	WF2012-1H15X02W	34.00	32.10	28.00	500	*

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

### Dimensions 尺寸

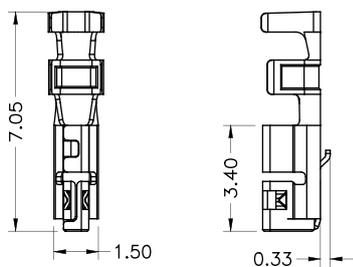


### Ordering Information 订购信息

Circuit 芯数	Part number 型号	Dimensions 尺寸 (mm)	Package 包装 Qty/Bag 只/袋装	Remake 可量产状态
		A		
2	GWF2012-1C02G02	6.35	1000	*
3	GWF2012-1C03G02	8.35	1000	*
4	GWF2012-1C04G02	10.35	1000	*
5	GWF2012-1C05G02	12.35	500	*
6	GWF2012-1C06G02	14.35	500	*
7	GWF2012-1C07G02	16.35	500	*
8	GWF2012-1C08G02	18.35	500	*
9	GWF2012-1C09G02	20.35	400	*
10	GWF2012-1C10G02	22.35	500	*
11	GWF2012-1C11G02	24.35	300	*
12	GWF2012-1C12G02	26.35	300	*

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

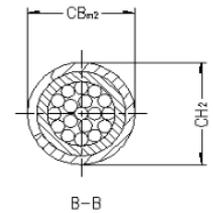
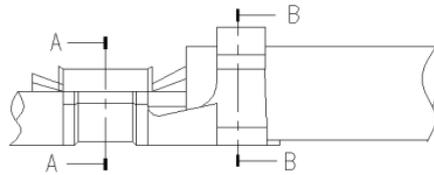
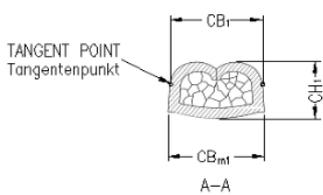
### Adaptor Terminal 适配端子



型号 Model number	WF2012-TPSN02
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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(mm) Crimping width (mm)	压接宽度CBm1(mm) Crimping height (mm)	压接高度 Crimping height	压接宽度CBm2 (mm) Crimping width (mm)	压接高度CH2 (mm) Crimping height (mm)
WF2012-TPSN01	AVSS 0.3 AVSS 0.3f AESSX 0.3f	0.38mm <sup>2</sup>	1.40±0.1	1.40±0.1	1.3	1.36	0.69-0.74	1.5	1.6
	UL1061	22AWG	1.15-1.40	1.15-1.40	1.3	1.34	0.65-0.70	1.58	1.58
	UL1061	24AWG	1.15-1.40	1.15-1.40	1.28	1.33	0.59-0.64	1.55	1.45
WF2012-TPSN02	AVSS	0.30mm <sup>2</sup>	1.40±0.1	1.40±0.1	1.25	1.33	0.76	1.55	1.5
	UL1061	22AWG	1.30±0.1	1.30±0.1	1.25	1.33	0.78	1.55	1.5



Model number allocation 型号命名

<b>WF2012</b>	-	<b>1</b>	<b>WM</b>	<b>H</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>1</b>
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1) Series (系列): Wafer 2.00mm Series					(5) Circuit (位数): 02=2P.....15=15P			
(2) Number of rows (行数): 1=Single Row					(6) Color (颜色): R=Red、B=Black、			
(3) Terminal type (端子形态): WM=S/T SMT					(7) Packing (包装): T=Tube、R=Tape&Reel (with CAP)			
(4) Product type (产品类形): H=High temperature resistance					(8) Internal code (流水码)			

<b>WF2012</b>	-	<b>1</b>	<b>WZ</b>	<b>H</b>	<b>XX</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>1</b>
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(1) Series (系列): Wafer 2.00mm Series					(6) Contact Plating (电镀): Blank=Matte Sn、SN=Tin				
(2) Number of rows (行数): 1=Single Row					(7) Color (颜色): R=Red、B=Black、T=Natural、U=Blue				
(3) Terminal type (端子形态): WZ=R/A SMT					(8) Packing (包装): T=Tube、R=Tape&Reel (with CAP)				
(4) Product type (产品类形): H=High temperature resistance					(9) Internal code (流水码)				
(5) Circuit (位数): 02=2P.....15=15P									

<b>WF2012</b>	<b>-</b>	<b>1</b>	<b>H</b>	<b>XX</b>	<b>X</b>	<b>0</b>	<b>1</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
(1) Series (系列): Wafer 2.00mm Series				(5) Color(颜色): B=Black、T=Natural			
(2) Number of rows (排数): 1=Single Row				(6) Packing (包装): 0=PE Bag			
(3) Product type (产品类型): H=Crimp Type Housing				(7) Internal code (流水码)			
(4) Circuit (位数): 02=2P.....15=15P							

<b>WF2012</b>	<b>-</b>	<b>1</b>	<b>H</b>	<b>XX</b>	<b>X</b>	<b>0</b>	<b>2</b>	<b>W</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
(1) Series (系列): Wafer 2.00mm Series				(5) Color(颜色): B=Black、R=Red				
(2) Number of rows (排数): 1=Single Row				(6) Packing (包装): 0=PE Bag				
(3) Product type (产品类型): H=Crimp Type Housing				(7) Internal code (流水码)				
(4) Circuit (位数): 02=2P.....15=15P				(8) Logo: W=With WCON Logo				

## Contact Us 联系我们

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Official Website



Product e-catalog



WeChat Public#



TikTok Public#