

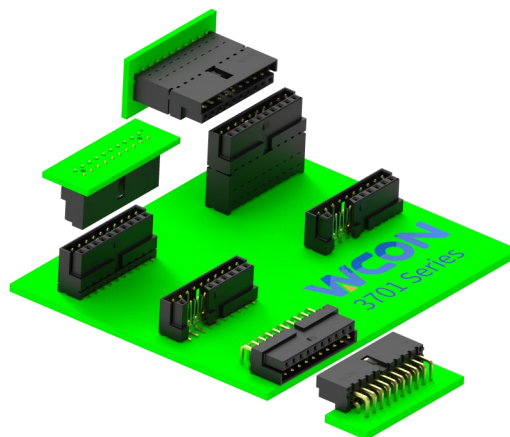
2.54mm pitch/board -to-board Connector  
2.54mm 间距/板到板连接器

### Overview

The 3701 Series is a 2.54mm pitch male-female integrated board-to-board connector offering various height, vertical, and horizontal connection configurations. Its unique integrated design not only provides efficient and reliable signal transmission for equipment but also significantly reduces component count and lowers development costs.

### 概述

3701系列是一款2.54间距公母同体板到板连接器，提供不同高度、垂直、水平连接组合，其独特的公母合体设计，在为设备提供有效可靠的信号传输外，又能极大程度减少元器件数量，缩减开发成本。



### Features and Benefits

- Integrated male-female components reduce development costs and simplify management.
- Poka-yoke design
- Welding Morphological Diversity
- Multiple matching heights available

### 产品特点

- 公母集成一体化，缩减开发成本，且便于管理
- 防呆设计防错插
- 焊接形态多样性
- 多种对配高度可选

### Product Applications

- Industrial: Industrial Control and Automation
- Medical: Computers and Peripheral Devices, Communication Module

### 应用领域

- 工业：工业控制与自动化
- 通信：计算机及接口设备、通讯模块

### Standard 标准

- GB/T 5095

### Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Header Plug/板端公座	LCP	Black/黑色	UL94V-0
Terminal/端子	Copper Alloy/铜合金	Gold-plated/镀金	-

Production Specifications 产品规格

Current rating 额定电流	3.2 A	Operating temperature Range:-55° C~+125° C (including temperature rise) Operating Humidity Range:20-80% 工作温度范围: -55° C~+125° C(含温升) 工作湿度范围: 20-80%	Storage temperature: Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	475V/AC		

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 DC 在100mA下测量, 用20 mV DC进行测量	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 25 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 25 mΩ 以下
Vibration Resistance 抗振动	Frequency : 10-500-10 Hz Acceleration : 10G Duration : 2 hours/axis Times : Each of three mutually perpendicular planes. 频率:10-500-10 Hz 加速度:10G 时长:2小时/轴 次数:三个相互垂直的平面中的每一个	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
Temperature life 高温老化	Temperature温度:125°C Duration时间:96H	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 25 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 25 mΩ 以下
Salt Spray 盐雾	Temperature:35±2°C Solution concentration : 5%NaCl PHvalue : 6.5 ~ 7.2 Duration : 12hours 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/ 20 mΩ max After environmental tests/ 25 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 25 mΩ 以下
Durability(Mating/un-mating) 插拔寿命	100 cycles 循环100次	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 25 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 25 mΩ 以下

Mating Height Chart 配合高度一览表

Table 1

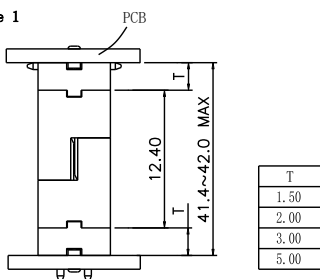


Table 2

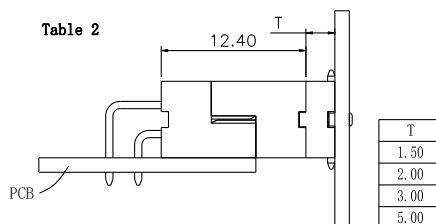
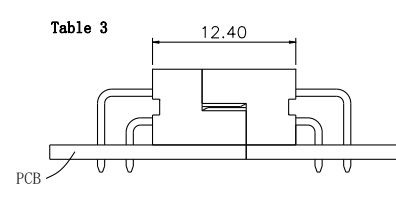


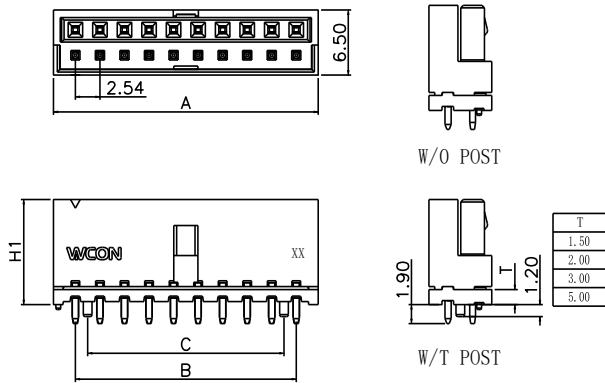
Table 3



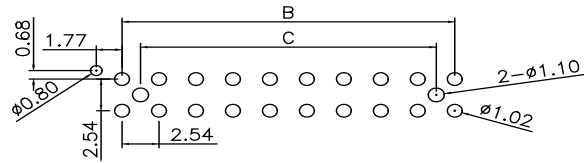


Dimensions 尺寸

PCB Layout 印刷电路板布局



DIP type 通孔焊接型



Ordering Information 订购信息

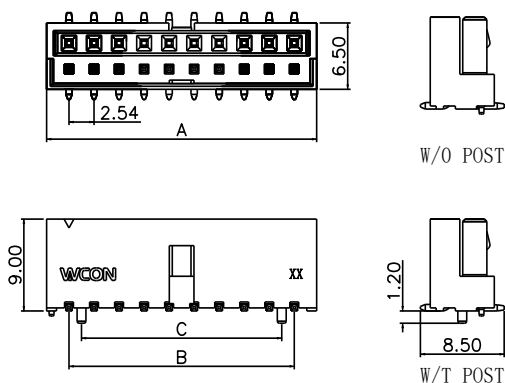
Circuit 芯数	Product height (H1) 产品高度 (mm)	Part number 型号		Plating 电镀	Dimensions 尺寸 (mm)			Package 包 装 Q'ty/Reel 只/卷装	Remake 可量产状态
		W/T POST	W/O POST		A	B	C		
10	10.5	3701-A010-105SXXR01	3701-A010-105SXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	14.70	10.16	7.62	170	
12		3701-A012-105SXXR01	3701-A012-105SXXR02		17.24	12.70	10.16	170	
16		3701-A016-105SXXR01	3701-A016-105SXXR02		22.32	17.78	15.24	170	
20		3701-A020-105SXXR01	3701-A020-105SXXR02		27.40	22.86	20.32	170	
26		3701-A026-105SXXR01	3701-A026-105SXXR02		35.02	30.48	27.94	170	
30		3701-A030-105SXXR01	3701-A030-105SXXR02		40.10	35.56	33.02	170	
40		3701-A040-105SXXR01	3701-A040-105SXXR02		52.80	48.26	45.72	170	*
60		3701-A060-105SXXR01	3701-A060-105SXXR02		78.20	73.66	71.12	170	
10	11.0	3701-A010-110SXXR01	3701-A010-110SXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	14.70	10.16	7.62	170	
12		3701-A012-110SXXR01	3701-A012-110SXXR02		17.24	12.70	10.16	170	
16		3701-A016-110SXXR01	3701-A016-110SXXR02		22.32	17.78	15.24	170	
20		3701-A020-110SXXR01	3701-A020-110SXXR02		27.40	22.86	20.32	170	
26		3701-A026-110SXXR01	3701-A026-110SXXR02		35.02	30.48	27.94	170	
30		3701-A030-110SXXR01	3701-A030-110SXXR02		40.10	35.56	33.02	170	
40		3701-A040-110SXXR01	3701-A040-110SXXR02		52.80	48.26	45.72	170	*
60		3701-A060-110SXXR01	3701-A060-110SXXR02		78.20	73.66	71.12	170	
10	12.0	3701-A010-120SXXR01	3701-A010-120SXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	14.70	10.16	7.62	170	
12		3701-A012-120SXXR01	3701-A012-120SXXR02		17.24	12.70	10.16	170	
16		3701-A016-120SXXR01	3701-A016-120SXXR02		22.32	17.78	15.24	170	
20		3701-A020-120SXXR01	3701-A020-120SXXR02		27.40	22.86	20.32	170	
26		3701-A026-120SXXR01	3701-A026-120SXXR02		35.02	30.48	27.94	170	
30		3701-A030-120SXXR01	3701-A030-120SXXR02		40.10	35.56	33.02	170	
40		3701-A040-120SXXR01	3701-A040-120SXXR02		52.80	48.26	45.72	170	*
60		3701-A060-120SXXR01	3701-A060-120SXXR02		78.20	73.66	71.12	170	
10	14.0	3701-A010-140SXXR01	3701-A010-140SXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	14.70	10.16	7.62	170	
12		3701-A012-140SXXR01	3701-A012-140SXXR02		17.24	12.70	10.16	170	
16		3701-A016-140SXXR01	3701-A016-140SXXR02		22.32	17.78	15.24	170	
20		3701-A020-140SXXR01	3701-A020-140SXXR02		27.40	22.86	20.32	170	
26		3701-A026-140SXXR01	3701-A026-140SXXR02		35.02	30.48	27.94	170	
30		3701-A030-140SXXR01	3701-A030-140SXXR02		40.10	35.56	33.02	170	
40		3701-A040-140SXXR01	3701-A040-140SXXR02		52.80	48.26	45.72	170	*
60		3701-A060-140SXXR01	3701-A060-140SXXR02		78.20	73.66	71.12	170	

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

For maximum product height, see Table 1

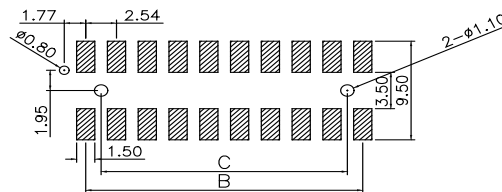
# 3701 Series

## Dimensions 尺寸



## PCB Layout 印刷电路板布局

SMT type 表面贴装型

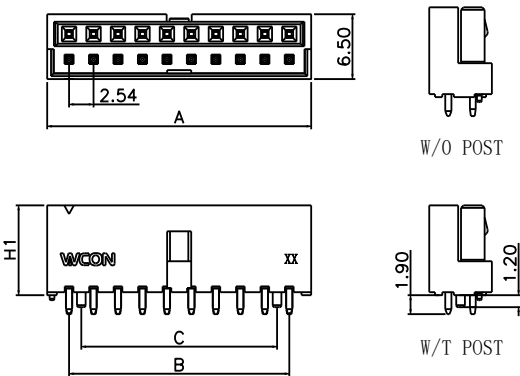


## Ordering Information 订购信息

Circuit 芯数	Product height (H1) 产品高度 (mm)	Part number 型号		Plating 电镀	Dimensions 尺寸 (mm)			Package 包装 Q'ty/Reel 只/卷装	Remake 可量产状态
		W/T POST	W/O POST		A	B	C		
10	9.0	3701-A010-090MXXR01	3701-A010-090MXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	14.70	10.16	7.62	170	
12		3701-A012-090MXXR01	3701-A012-090MXXR02		17.24	12.70	10.16	170	
16		3701-A016-090MXXR01	3701-A016-090MXXR02		22.32	17.78	15.24	170	
20		3701-A020-090MXXR01	3701-A020-090MXXR02		27.40	22.86	20.32	170	
26		3701-A026-090MXXR01	3701-A026-090MXXR02		35.02	30.48	27.94	170	
30		3701-A030-090MXXR01	3701-A030-090MXXR02		40.10	35.56	33.02	170	
40		3701-A040-090MXXR01	3701-A040-090MXXR02		52.80	48.26	45.72	170	*
60		3701-A060-090MXXR01	3701-A060-090MXXR02		78.20	73.66	71.12	170	

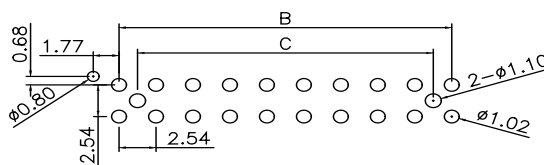
Note: \* stands for mass production . 注: \*代表可量产

## Dimensions 尺寸



## PCB Layout 印刷电路板布局

DIP type 通孔焊接型

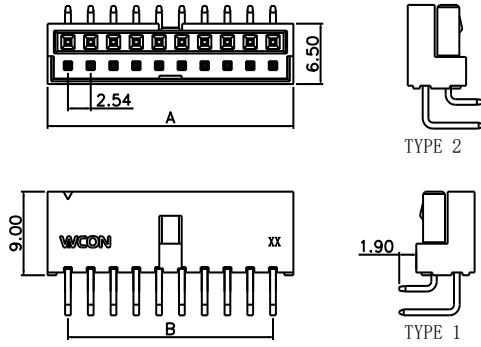


## Ordering Information 订购信息

Circuit 芯数	Product height (H1) 产品高度 (mm)	Part number 型号		Plating 电镀	Dimensions 尺寸 (mm)			Package 包装 Q'ty/Reel 只/卷装	Remake 可量产状态
		W/T POST	W/O POST		A	B	C		
10	9.0	3701-A010-090SXXR01	3701-A010-090SXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	14.70	10.16	7.62	170	
12		3701-A012-090SXXR01	3701-A012-090SXXR02		17.24	12.70	10.16	170	
16		3701-A016-090SXXR01	3701-A016-090SXXR02		22.32	17.78	15.24	170	
20		3701-A020-090SXXR01	3701-A020-090SXXR02		27.40	22.86	20.32	170	
26		3701-A026-090SXXR01	3701-A026-090SXXR02		35.02	30.48	27.94	170	
30		3701-A030-090SXXR01	3701-A030-090SXXR02		40.10	35.56	33.02	170	
40		3701-A040-090SXXR01	3701-A040-090SXXR02		52.80	48.26	45.72	170	*
60		3701-A060-090SXXR01	3701-A060-090SXXR02		78.20	73.66	71.12	170	

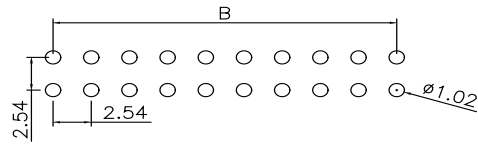
Note: \* stands for mass production . 注: \*代表可量产

Dimensions 尺寸



PCB Layout 印刷电路板布局

DIP type 通孔焊接型



Ordering Information 订购信息

Circuit 芯数	Product height (H1) 产品高度 (mm)	Part number 型号		Plating 电镀	Dimensions 尺寸 (mm)		Parkage 包 装 Q'ty/Reel 只/卷装	Remake 可量产状态
		TYPE 1	TYPE 2		A	B		
10	9.0	3701-A010-090RXXR01	3701-A010-090RXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	14.70	10.16	170	
12		3701-A012-090RXXR01	3701-A012-090RXXR02		17.24	12.70	170	
16		3701-A016-090RXXR01	3701-A016-090RXXR02		22.32	17.78	170	
20		3701-A020-090RXXR01	3701-A020-090RXXR02		27.40	22.86	170	
26		3701-A026-090RXXR01	3701-A026-090RXXR02		35.02	30.48	170	
30		3701-A030-090RXXR01	3701-A030-090RXXR02		40.10	35.56	170	
40		3701-A040-090RXXR01	3701-A040-090RXXR02		52.80	48.26	170	*
60		3701-A060-090RXXR01	3701-A060-090RXXR02		78.20	73.66	170	

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

# 3701 Series

## Model number allocation 型号命名

3701	-	A	XXX	-	XXX	X	XX	X	XX
(1)		(2)	(3)		(4)	(5)	(6)	(7)	(8)
(1) Series (系列): 3701 Series					(5) Welding Processes(焊接方式): M=180°SMT、S=180°DIP				
(2) Modle (型号): A=Plug/Socket					(5) Contact Plating(电镀): W0=Gold Flash/Matte Tin、W3=10u"Gold/Matte Tin、W5=30u"Gold/Matte Tin				
(3) Circuit (位数): 010=10P.....060=60P					(8) Packing (包装): R=Tape&Reel+CAP、T=Tube				
(4) Housing Height (塑胶高度): 090=9.00mm、105=10.5mm、110=11.0mm...					(9) Running Number (流水码): 01=With Post、02=Without Post				

3701	-	A	XXX	-	XXX	R	XX	X	XX
(1)		(2)	(3)		(4)	(5)	(6)	(7)	(8)
(1) Series (系列): 3701 Series					(5) Welding Processes(焊接方式): R=90°DIP				
(2) Modle (型号): A=Plug/Socket					(5) Contact Plating(电镀): W0=Gold Flash/Matte Tin、W3=10u"Gold/Matte Tin、W5=30u"Gold/Matte Tin				
(3) Circuit (位数): 010=10P.....060=60P					(8) Packing (包装): R=Tape&Reel+CAP、T=Tube				
(4) Housing Height (塑胶高度): 090=9.00mm					(9) Running Number (流水码): 01=TYPE 1、02=TYPE 2				

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Official Website



Product e-catalog



WeChat Public#



TikTok Public#