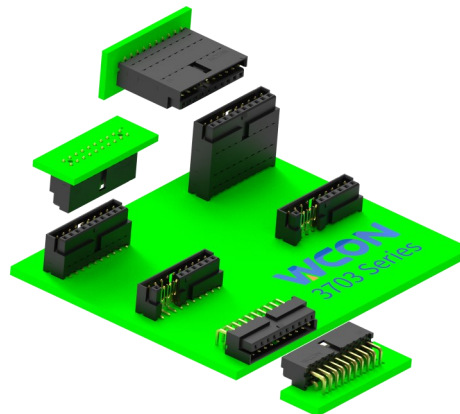


2.00mm pitch/board -to-board Connector
2.00mm 间距/板到板连接器

Overview

The 3703 Series is a 2.00mm 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

3703系列是一款2.00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

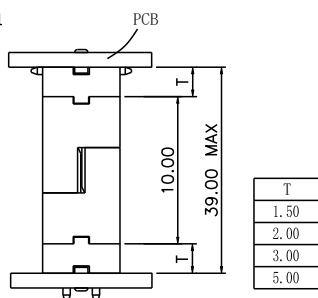


Table 2

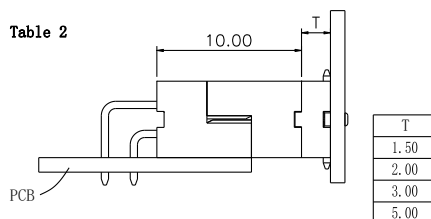
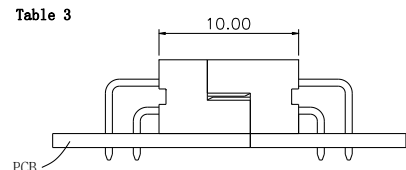
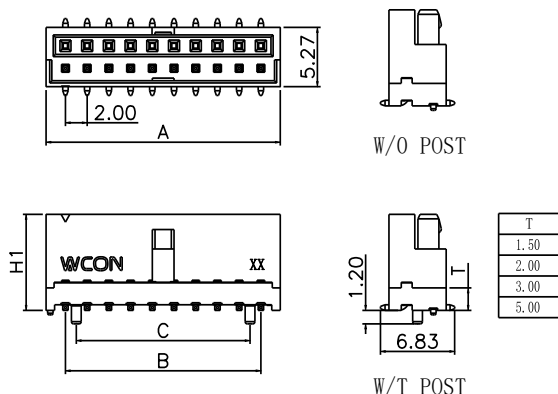


Table 3



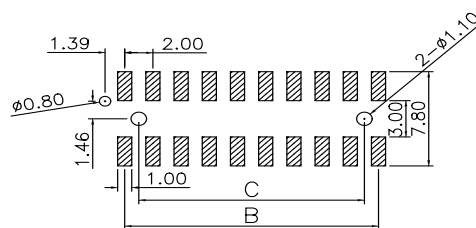
3703 Series

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

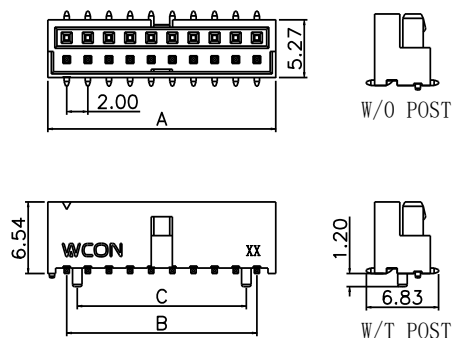
Circuit 芯数	Product height (H1) 产品高度 (mm)	Part number 型号		Plating 电镀	Dimensions 尺寸 (mm)			Package 包 装 Q'ty/Reel 只/卷装	Remake 可量产状态
		W/T POST	W/O POST		A	B	C		
10	8.04	3703-A010-080MXXR01	3703-A010-080MXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	11.57	8.00	6.00	370	
12		3703-A012-080MXXR01	3703-A012-080MXXR02		13.57	10.00	8.00	370	
16		3703-A016-080MXXR01	3703-A016-080MXXR02		17.57	14.00	12.00	370	
20		3703-A020-080MXXR01	3703-A020-080MXXR02		21.57	18.00	16.00	370	
26		3703-A026-080MXXR01	3703-A026-080MXXR02		27.57	24.00	22.00	370	
30		3703-A030-080MXXR01	3703-A030-080MXXR02		31.57	28.00	26.00	370	
40		3703-A040-080MXXR01	3703-A040-080MXXR02		41.57	38.00	36.00	370	*
60		3703-A060-080MXXR01	3703-A060-080MXXR02		61.57	58.00	56.00	370	
10	8.54	3703-A010-085MXXR01	3703-A010-085MXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	11.57	8.00	6.00	370	
12		3703-A012-085MXXR01	3703-A012-085MXXR02		13.57	10.00	8.00	370	
16		3703-A016-085MXXR01	3703-A016-085MXXR02		17.57	14.00	12.00	370	
20		3703-A020-085MXXR01	3703-A020-085MXXR02		21.57	18.00	16.00	370	
26		3703-A026-085MXXR01	3703-A026-085MXXR02		27.57	24.00	22.00	370	
30		3703-A030-085MXXR01	3703-A030-085MXXR02		31.57	28.00	26.00	370	
40		3703-A040-085MXXR01	3703-A040-085MXXR02		41.57	38.00	36.00	370	*
60		3703-A060-085MXXR01	3703-A060-085MXXR02		61.57	58.00	56.00	370	
10	9.54	3703-A010-095MXXR01	3703-A010-095MXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	11.57	8.00	6.00	370	
12		3703-A012-095MXXR01	3703-A012-095MXXR02		13.57	10.00	8.00	370	
16		3703-A016-095MXXR01	3703-A016-095MXXR02		17.57	14.00	12.00	370	
20		3703-A020-095MXXR01	3703-A020-095MXXR02		21.57	18.00	16.00	370	
26		3703-A026-095MXXR01	3703-A026-095MXXR02		27.57	24.00	22.00	370	
30		3703-A030-095MXXR01	3703-A030-095MXXR02		31.57	28.00	26.00	370	
40		3703-A040-095MXXR01	3703-A040-095MXXR02		41.57	38.00	36.00	370	*
60		3703-A060-095MXXR01	3703-A060-095MXXR02		61.57	58.00	56.00	370	
10	11.54	3703-A010-115MXXR01	3703-A010-115MXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	11.57	8.00	6.00	370	
12		3703-A012-115MXXR01	3703-A012-115MXXR02		13.57	10.00	8.00	370	
16		3703-A016-115MXXR01	3703-A016-115MXXR02		17.57	14.00	12.00	370	
20		3703-A020-115MXXR01	3703-A020-115MXXR02		21.57	18.00	16.00	370	
26		3703-A026-115MXXR01	3703-A026-115MXXR02		27.57	24.00	22.00	370	
30		3703-A030-115MXXR01	3703-A030-115MXXR02		31.57	28.00	26.00	370	
40		3703-A040-115MXXR01	3703-A040-115MXXR02		41.57	38.00	36.00	370	*
60		3703-A060-115MXXR01	3703-A060-115MXXR02		61.57	58.00	56.00	370	

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

MaFor maximum product height, see Table 1

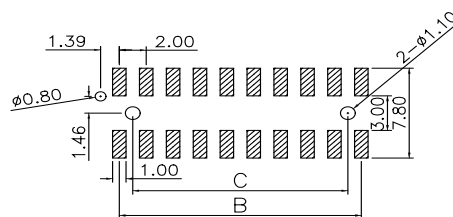
3703 Series

Dimensions 尺寸



PCB Layout 印刷电路板布局

SMT type 表面贴装型

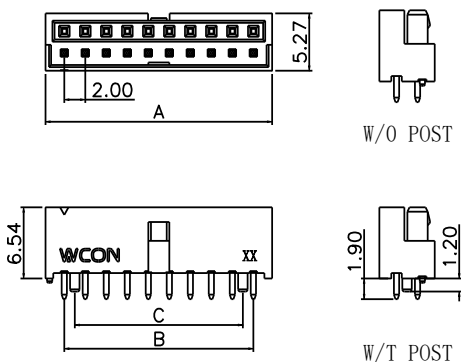


Ordering Information 订购信息

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	6.54	3703-A010-065MXXR01	3703-A010-065MXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	11.57	8.00	6.00	370	
12		3703-A012-065MXXR01	3703-A012-065MXXR02		13.57	10.00	8.00	370	
16		3703-A016-065MXXR01	3703-A016-065MXXR02		17.57	14.00	12.00	370	
20		3703-A020-065MXXR01	3703-A020-065MXXR02		21.57	18.00	16.00	370	
26		3703-A026-065MXXR01	3703-A026-065MXXR02		27.57	24.00	22.00	370	
30		3703-A030-065MXXR01	3703-A030-065MXXR02		31.57	28.00	26.00	370	
40		3703-A040-065MXXR01	3703-A040-065MXXR02		41.57	38.00	36.00	370	*
60		3703-A060-065MXXR01	3703-A060-065MXXR02		61.57	58.00	56.00	370	

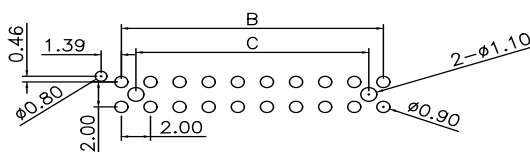
Note: * stands for mass production . 注: *代表可量产

Dimensions 尺寸



PCB Layout 印刷电路板布局

DIP type 通孔焊接型

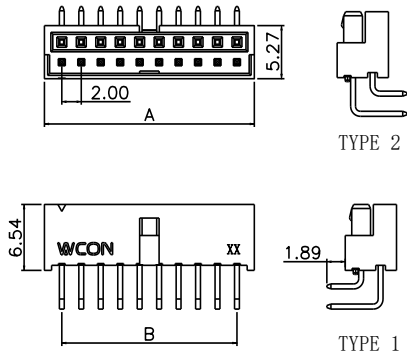


Ordering Information 订购信息

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	6.54	3703-A010-065SXXR01	3703-A010-065SXXR02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	11.57	8.00	6.00	370	
12		3703-A012-065SXXR01	3703-A012-065SXXR02		13.57	10.00	8.00	370	
16		3703-A016-065SXXR01	3703-A016-065SXXR02		17.57	14.00	12.00	370	
20		3703-A020-065SXXR01	3703-A020-065SXXR02		21.57	18.00	16.00	370	
26		3703-A026-065SXXR01	3703-A026-065SXXR02		27.57	24.00	22.00	370	
30		3703-A030-065SXXR01	3703-A030-065SXXR02		31.57	28.00	26.00	370	
40		3703-A040-065SXXR01	3703-A040-065SXXR02		41.57	38.00	36.00	370	*
60		3703-A060-065SXXR01	3703-A060-065SXXR02		61.57	58.00	56.00	370	

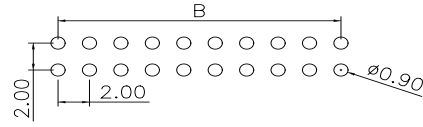
Note: * stands for mass production . 注: *代表可量产

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/Tube 只/管装	Remake 可量产状态
		TYPE 1	TYPE 2		A	B		
10	9.0	3703-A010-065RXXT01	3703-A010-065RXXT02	XX: W0=Gold Flash/ Matte Tin W3=10u"Gold/ Matte Tin W5=15u"Gold/ Matte Tin	11.57	8.00	50	
12		3703-A012-065RXXT01	3703-A012-065RXXT02		13.57	10.00	42	
16		3703-A016-065RXXT01	3703-A016-065RXXT02		17.57	14.00	33	
20		3703-A020-065RXXT01	3703-A020-065RXXT02		21.57	18.00	26	
26		3703-A026-065RXXT01	3703-A026-065RXXT02		27.57	24.00	21	
30		3703-A030-065RXXT01	3703-A030-065RXXT02		31.57	28.00	18	
40		3703-A040-065RXXT01	3703-A040-065RXXT02		41.57	38.00	13	*
60		3703-A060-065RXXT01	3703-A060-065RXXT02		61.57	58.00	9	

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

3703 Series

Model number allocation 型号命名

3703	-	A	XXX	-	XXX	X	XX	X	XX
(1)		(2)	(3)		(4)	(5)	(6)	(7)	(8)
(1) Series (系列): 3703 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): 065=6.54mm、080=8.04mm、085=8.54mm...					(9) Running Number (流水码): 01=With Post、02=Without Post				

3703	-	A	XXX	-	XXX	R	XX	X	XX
(1)		(2)	(3)		(4)	(5)	(6)	(7)	(8)
(1) Series (系列): 3703 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): 065=6.54mm					(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#