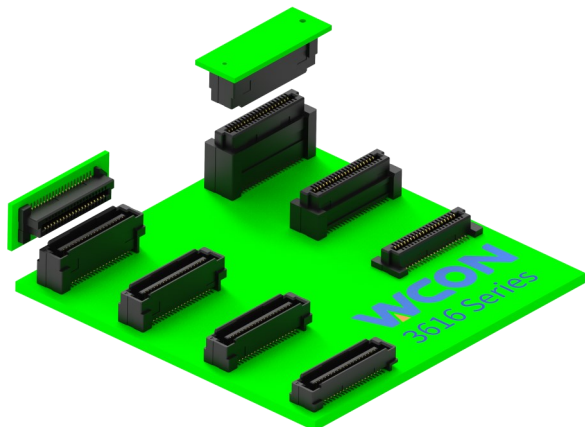


## 3616 Series

0.80mm pitch board-to-board connector



## Features and Benefits

- Anti-misplug structure
- Positioning pillar design ensures precise alignment on circuit boards
- Wide range of mounting heights to meet user requirements

## Product Applications

Industrial: Automation equipment, industrial computers  
 Medical: Portable blood glucose monitors, telemedicine

## Standard 标准

- EIA 364

## 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	PA9T/LCP	Natural/本色	UL94V-0
Header Socket/板端母座	PA9T/LCP	Natural/本色	UL94V-0
Terminal/端子	Copper Alloy/铜合金	Gold-plated/镀金 Tin-plated/镀锡	-

## 3616系列

0.80mm间距 板到板连接器

## Overview

The 0.80mm pitch 3616 series is a high-density, high-performance board-to-board connector with a temperature resistance up to 125°C, designed for signal transmission in electronic devices.

## 概述

0.80mm 间距3616系列产品是一款高密度、高性能，耐温可达125°C，为设备提供信号传输的板到板连接器。

## 产品特点

- 防误插结构
- 定位柱设计，确保在电路板上的精准定位
- 广泛的配合高度、满足用户需求

## 应用领域

- 工业：自动化设备、工业电脑
- 医疗：监测仪、远程医疗

## UL certification UL认证

- E248993

Production Specifications 产品规格

Current rating 额定电流	0.50 A	Operating temperature Range:-40° C~+125° C (including temperature rise) Operating Humidity Range:20-80%	Storage temperature: Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	50V/AC	工作温度范围: -40° C~+125° C(含温升) 工作湿度范围: 20-80%	

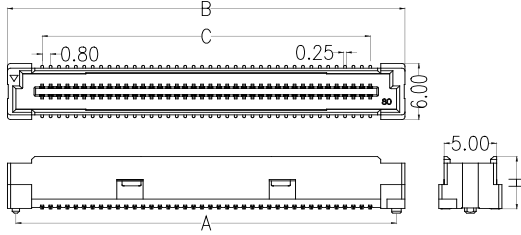
Item 项目	Condition 条件	Specification 规格
Insulation Resistance 绝缘电阻	Measured at 500V DC for 1 minute 测试电压: 500V DC/1分钟	No less than 500MΩ 不少于500MΩ
Withstanding voltage 耐压	Measured at 500V AC for 1 minute 测试电压: 500V AC/1分钟	No breakdown, no discharge, leakage current <0.5mA 无击穿、无放电、漏电流<0.5mA
Contact Resistance 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/ 30 mΩ max After environmental tests/ 50 mΩ max. 接触电阻: 初始值 30 mΩ 以下 测试后 50 mΩ 以下
Vibration Resistance 抗振动	Frequency : 50 ~ 2000 Hz PSD value : 5.35Gms minimum Duration : 15 minutes/axis Times : Each of three mutually perpendicular planes. 频率:50~2000Hz PSD值:5.35Gms minimum 时长:15分钟/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/ 30 mΩ max After environmental tests/ 50 mΩ max. 接触电阻: 初始值 30 mΩ 以下 测试后 50 mΩ 以下
Salt Spray 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/ 30 mΩ max After environmental tests/ 50 mΩ max. No evidence of damage. 接触电阻: 初始值 30 mΩ 以下 测试后 50 mΩ 以下
Durability(Mating/un-mating) 插拔寿命	50 cycles 循环50次	Contact resistance: Initial value/ 30 mΩ max After environmental tests/ 50 mΩ max. 接触电阻: 初始值 30 mΩ 以下 测试后 50 mΩ 以下

3616 Series

Mating Height Chart 配合高度一览表

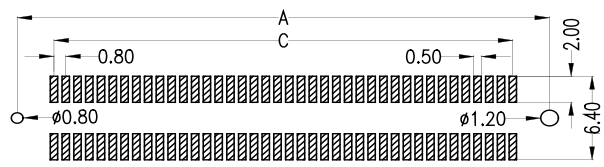
母座高度 (mm)	公座高度 (mm)	4.60	5.60	6.60	7.60
3.75		5.0	6.0	7.0	8.0
7.75		9.0	10.0	11.0	12.0
11.75		13.0	14.0	15.0	16.0

Dimensions 尺寸



PCB Layout 印刷电路板布局

(Plug)SMT type 表面贴装型



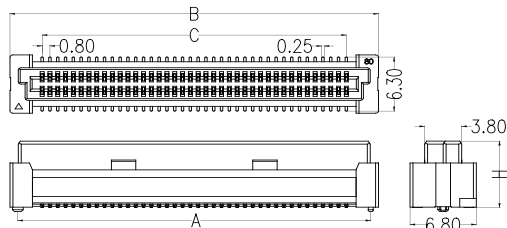
Order Information 订购信息

Circuit 芯数	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
	LCP	PA9T		A	B	C		
20	3616-P020-046SXR01	3616-P020-046SXR02	SX: S1=3U"Gold/Tin S3=10U"Gold/Tin	12.20	13.80	7.20	700	
	3616-P020-056SXR01	3616-P020-056SXR02					550	
	3616-P020-066SXR01	3616-P020-066SXR02					500	*
	3616-P020-076SXR01	3616-P020-076SXR02					400	*
30	3616-P030-046SXR01	3616-P030-046SXR02		16.20	17.80	11.20	700	
	3616-P030-056SXR01	3616-P030-056SXR02					550	
	3616-P030-066SXR01	3616-P030-066SXR02					500	*
	3616-P030-076SXR01	3616-P030-076SXR02					400	*
40	3616-P040-046SXR01	3616-P040-046SXR02		20.20	21.80	15.20	700	*
	3616-P040-056SXR01	3616-P040-056SXR02					550	*
	3616-P040-066SXR01	3616-P040-066SXR02					500	*
	3616-P040-076SXR01	3616-P040-076SXR02					400	*
50	3616-P050-046SXR01	3616-P050-046SXR02		24.20	25.80	19.20	700	*
	3616-P050-056SXR01	3616-P050-056SXR02					550	
	3616-P050-066SXR01	3616-P050-066SXR02					500	*
	3616-P050-076SXR01	3616-P050-076SXR02					400	
60	3616-P060-046SXR01	3616-P060-046SXR02		28.20	29.80	23.20	700	*
	3616-P060-056SXR01	3616-P060-056SXR02					550	*
	3616-P060-066SXR01	3616-P060-066SXR02					500	*
	3616-P060-076SXR01	3616-P060-076SXR02					400	*
80	3616-P080-046SXR01	3616-P080-046SXR02	36.20	37.80	31.20	700	*	
	3616-P080-056SXR01	3616-P080-056SXR02				550	*	
	3616-P080-066SXR01	3616-P080-066SXR02				500		
	3616-P080-076SXR01	3616-P080-076SXR02				400	*	
100	3616-P100-046SXR01	3616-P100-046SXR02	44.20	45.80	39.20	700	*	
	3616-P100-056SXR01	3616-P100-056SXR02				550	*	
	3616-P100-066SXR01	3616-P100-066SXR02				500	*	
	3616-P100-076SXR01	3616-P100-076SXR02				400	*	
120	3616-P120-046SXR01	3616-P120-046SXR02	52.20	53.80	47.20	700	*	
	3616-P120-056SXR01	3616-P120-056SXR02				550		
	3616-P120-066SXR01	3616-P120-066SXR02				500		
	3616-P120-076SXR01	3616-P120-076SXR02				400	*	
140	3616-P140-046SXR01	3616-P140-046SXR02	60.20	61.80	55.20	700	*	
	3616-P140-056SXR01	3616-P140-056SXR02				550	*	
	3616-P140-066SXR01	3616-P140-066SXR02				500		
	3616-P140-076SXR01	3616-P140-076SXR02				400	*	
160	3616-P160-046SXR01	3616-P160-046SXR02	68.20	69.80	63.20	700		
	3616-P160-056SXR01	3616-P160-056SXR02				550		
	3616-P160-066SXR01	3616-P160-066SXR02				500		
	3616-P160-076SXR01	3616-P160-076SXR02				400		

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

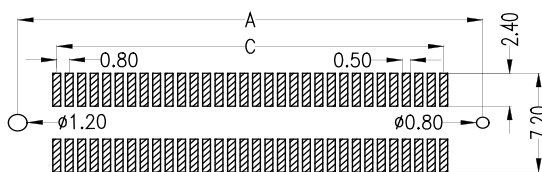
# 3616 Series

## Dimensions 尺寸



## PCB Layout 印刷电路板布局

(Socket)SMT type 表面贴装型



## Order Information 订购信息

Circuit 芯数	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
	LCP	PA9T		A	B	C		
20	3616-S020-037SXR01	3616-S020-037SXR02	SX: S1=3U"Gold/Tin S3=10U"Gold/Tin	12.20	13.80	7.20	800	*
	3616-S020-077SXR01	3616-S020-077SXR02					400	*
	3616-S020-117SXR01	3616-S020-117SXR02					250	*
30	3616-S030-037SXR01	3616-S030-037SXR02		16.20	17.80	11.20	800	*
	3616-S030-077SXR01	3616-S030-077SXR02					400	
	3616-S030-117SXR01	3616-S030-117SXR02					250	*
40	3616-S040-037SXR01	3616-S040-037SXR02		20.20	21.80	15.20	800	*
	3616-S040-077SXR01	3616-S040-077SXR02					400	*
	3616-S040-117SXR01	3616-S040-117SXR02					250	*
50	3616-S050-037SXR01	3616-S050-037SXR02		24.20	25.80	19.20	800	*
	3616-S050-077SXR01	3616-S050-077SXR02					400	
	3616-S050-117SXR01	3616-S050-117SXR02					250	
60	3616-S060-037SXR01	3616-S060-037SXR02		28.20	29.80	23.20	800	*
	3616-S060-077SXR01	3616-S060-077SXR02					400	*
	3616-S060-117SXR01	3616-S060-117SXR02					250	*
80	3616-S080-037SXR01	3616-S080-037SXR02		36.20	37.80	31.20	800	*
	3616-S080-077SXR01	3616-S080-077SXR02					400	*
	3616-S080-117SXR01	3616-S080-117SXR02					250	*
100	3616-S100-037SXR01	3616-S100-037SXR02	44.20	45.80	39.20	800	*	
	3616-S100-077SXR01	3616-S100-077SXR02				400	*	
	3616-S100-117SXR01	3616-S100-117SXR02				250	*	
120	3616-S120-037SXR01	3616-S120-037SXR02	52.20	53.80	47.20	800	*	
	3616-S120-077SXR01	3616-S120-077SXR02				400	*	
	3616-S120-117SXR01	3616-S120-117SXR02				250	*	
140	3616-S140-037SXR01	3616-S140-037SXR02	60.20	61.80	55.20	800	*	
	3616-S140-077SXR01	3616-S140-077SXR02				400	*	
	3616-S140-117SXR01	3616-S140-117SXR02				250	*	
160	3616-S160-037SXR01	3616-S160-037SXR02	68.20	69.80	63.20	800		
	3616-S160-077SXR01	3616-S160-077SXR02				400		
	3616-S160-117SXR01	3616-S160-117SXR02				250		

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

<b>3616</b>	-	<b>P</b>	<b>XXX</b>	-	<b>XXX</b>	<b>XX</b>	<b>R</b>	<b>0X</b>
(1)		(2)	(3)		(4)	(5)	(6)	(7)
(1) Series (系列): 0.80mm Board to Board Series					(5) Contact Plating(电镀): S1=3U"Gold/Tin、S3=10U"Gold/Tin			
(2) Product type (产品类型): P=Plug					(6) Packing (包装): R=Reel			
(3) Positions (位数): 020=20.....160=160P								
(4) Housing Height (塑胶高度): 046=4.60、056=5.60 066=6.60、076=7.60					(7) Running Number (流水码): 01=LCP、02=PA9T			

<b>3616</b>	-	<b>S</b>	<b>XXX</b>	-	<b>XXX</b>	<b>XX</b>	<b>R</b>	<b>0X</b>
(1)		(2)	(3)		(4)	(5)	(6)	(7)
(1) Series (系列): 0.80mm Board to Board Series					(5) Contact Plating(电镀): S1=3U"Gold/Tin、S3=10U"Gold/Tin			
(2) Product type (产品类型): S=Socket					(6) Packing (包装): R=Reel			
(3) Positions (位数): 020=20.....160=160P								
(4) Housing Height (塑胶高度): 037=3.75、077=7.75、 117=11.75					(7) Running Number (流水码): 01=LCP、02=PA9T			

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