

1.00mm (0.040")pitch,SMT Board-to-Board Connector

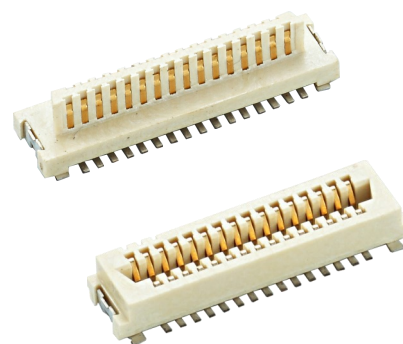
1.00毫米（0.040英寸）间距，表面贴装板对板连接器

Overview

1.00mm pitch 3640 series is a compact, dual-row, high-density connector featuring a small pitch. It provides high-density, high-performance board-to-board connectivity for signal transmission within equipment.

概述

3640系列产品是一款小间距双排密集小型接插件，具有高密度、高性能，为设备提供信号传输的板到板连接器。



Features and Benefits

- Unique terminal design for stable and reliable contact
- Employing metal fittings to enhance retention force with the PCB
- Anti-misinsertion structure design to prevent product damage
- Stacking height: 4.15–7.52 mm (selectable)

特点与优势

- 独特端子设计，接触稳定可靠
- 带有金属配件，增强与PCB的保持力
- 防误插结构设计、避免损坏产品
- 堆叠高度：4.15~7.52mm(可选)

Product Applications

- Industrial: PLCs, robotic control cabinets, servo drives
- Communications: Network communications, servers
- Medical: Instrumentation and equipment

应用领域

- 工业：PLC、机器人控制箱、伺服驱动器
- 通讯：网络通讯、服务器
- 医疗：仪器设备

Standard 标准

- EIA 364
- IEC 60512

UL certification UL认证

- E248993

Material 材料

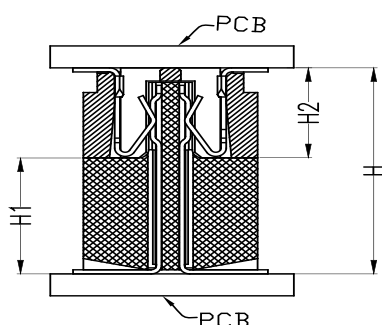
Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Plug/插头	LCP	本色/Natural	UL94V-0
Socket/插座	LCP	本色/Natural	UL94V-0
Terminal/端子	Copper Alloy	Plated Au or Sn over Ni 镀半金锡	-

Production Specifications 产品规格

Current rating 额定电流	1.0 A	Operating Temperature Range:-55° C~+130° (including temperature rise) Operating Humidity Range:20-80%	Storage Temperature:25±5° C Humidity:≤60%
Voltage rating 额定电压	100V	工作温度范围: -55° C~+130° C(含温升) 工作湿度范围: 20-80%	储存温度: 25±5° C 储存湿度: ≤60%

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1000M Ω
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 <0.5 mA
Contact Resistance 接触电阻	Test Voltage 测试电压: 20mV Max Test current 测试电流: 100mA Max	Contact resistance: Initial value/ 20 m Ω max After environmental tests/ 30 m Ω max. 接触电阻: 初始值 20 m Ω 以下 测试后 30 m Ω 以下
Vibration Resistance 抗振动	Frequency: 50 ~ 2000 Hz PSD value: 5.35 G Duration: 15minutes/axis Vibration: X/Y/Z 频率: 20 ~ 2000 Hz PSD值: 5.35 G 时长: 15分钟/轴 方向: X/Y/Z	No electrical discontinuity of 1 μ s or greater 试验过程中未发生1 μ s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 m Ω max After environmental tests/ 30 m Ω max. 接触电阻: 初始值 20 m Ω 以下 测试后 30 m Ω 以下
Salt Spray 盐雾	Temperature 温度: 35±2°C Humidity 湿度: 95 ~ 98% (R.H) pH Value 酸碱值: 6.5~7.2 Duration 时间: 24H	Contact resistance: Initial value/ 20 m Ω max After environmental tests/ 30 m Ω max. 接触电阻: 初始值 20 m Ω 以下 测试后 30 m Ω 以下
Durability(Mating/un-mating) 插拔寿命	30 cycles 循环30次	Contact resistance: Initial value/ 20 m Ω max After environmental tests/ 30 m Ω max. 接触电阻: 初始值 20 m Ω 以下 测试后 30 m Ω 以下

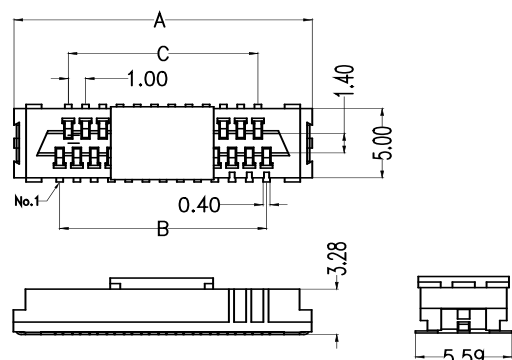
Mating Height Chart 配合高度一览表



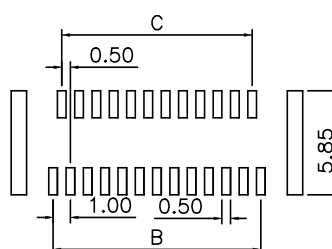
H	H1	H2
Total High	Plug	Socket
4.15	0.86	3.28
4.50	1.23	
5.00	1.73	
5.50	2.23	
6.00	2.72	
7.00	3.72	
7.52	4.23	

3640 Series

Dimensions 尺寸 (Socket 插座)



PCB Layout 印刷电路板布局 (SMT)

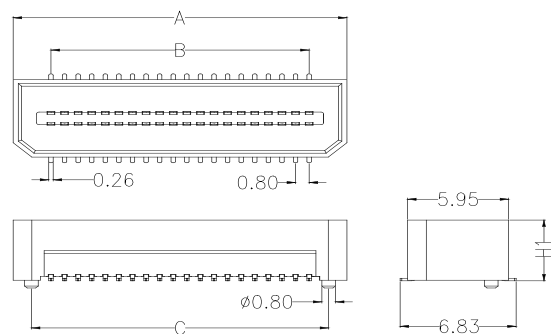


Order Information 订购信息

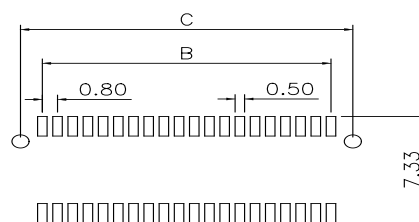
Circuit 芯数	Product height 产品高度 (mm)	Part number 型号	Plating 电镀	Dimensions 尺寸 (mm)			Parkage quantity 包装数量		Remake 可量产状态
				A	B	C	Q'ty/1Reel 只/1卷装	Outer carton 外箱	
9	H2=3.28	3640-S009-032S1R01	S1=3u"Gold/Tin	9.30	4.00	3.00	1,200	10,800	
		3640-S009-032S3R01	S3=10u"Gold/Tin						
		3640-S009-032S5R01	S5=30u"Gold/Tin						
11		3640-S011-032S1R01	S1=3u"Gold/Tin	10.30	5.00	4.00	1,200	10,800	
		3640-S011-032S3R01	S3=10u"Gold/Tin						
		3640-S011-032S5R01	S5=30u"Gold/Tin						
15		3640-S015-032S1R01	S1=3u"Gold/Tin	12.30	7.00	6.00	1,200	10,800	
		3640-S015-032S3R01	S3=10u"Gold/Tin						
		3640-S015-032S5R01	S5=30u"Gold/Tin						
21		3640-S021-032S1R01	S1=3u"Gold/Tin	15.30	10.00	9.00	1,200	7,200	*
		3640-S021-032S3R01	S3=10u"Gold/Tin						
		3640-S021-032S5R01	S5=30u"Gold/Tin						
25		3640-S025-032S1R01	S1=3u"Gold/Tin	17.30	12.00	11.00	1,200	6,000	*
		3640-S025-032S3R01	S3=10u"Gold/Tin						
		3640-S025-032S5R01	S5=30u"Gold/Tin						
31		3640-S031-032S1R01	S1=3u"Gold/Tin	20.30	15.00	14.00	1,200	7,200	*
		3640-S031-032S3R01	S3=10u"Gold/Tin						
		3640-S031-032S5R01	S5=30u"Gold/Tin						
41		3640-S041-032S1R01	S1=3u"Gold/Tin	25.30	20.00	19.00	1,200	7,200	*
		3640-S041-032S3R01	S3=10u"Gold/Tin						
		3640-S041-032S5R01	S5=30u"Gold/Tin						
51		3640-S051-032S1R01	S1=3u"Gold/Tin	30.30	25.00	24.00	1,200	7,200	
		3640-S051-032S3R01	S3=10u"Gold/Tin						
		3640-S051-032S5R01	S5=30u"Gold/Tin						
69		3640-S069-032S1R01	S1=3u"Gold/Tin	39.30	34.00	33.00	1,200	3,600	*
		3640-S069-032S3R01	S3=10u"Gold/Tin						
		3640-S069-032S5R01	S5=30u"Gold/Tin						

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

Dimensions 尺寸 (Plug 插头)



PCB Layout 印刷电路板布局 (SMT)



Order Information 订购信息

Circuit 芯数	Product height 产品高度 (mm)	Part number 型号	Plating 电镀	Dimensions 尺寸 (mm)			Package quantity 包装数量		Remake 可量产状态
				A	B	C	Q'ty/1Reel 只/1卷装	Outer carton 外箱	
9	H1=0.86	3640-S009-008SXR01	SX: S1=3u"Gold/Tin S3=10u"Gold/Tin S5=30u"Gold/Tin	9.30	4.00	3.00	1,000	9,000	
	H1=1.23	3640-S009-012SXR01					1,000	9,000	
	H1=1.73	3640-S009-017SXR01					950	8,550	
	H1=2.23	3640-S009-022SXR01					800	7,200	
	H1=2.72	3640-S009-027SXR01					800	7,200	
	H1=3.72	3640-S009-037SXR01					650	5,850	
	H1=4.23	3640-S009-042SXR01					600	5,400	
11	H1=0.86	3640-S011-008SXR01	SX: S1=3u"Gold/Tin S3=10u"Gold/Tin S5=30u"Gold/Tin	10.30	5.00	4.00	1,000	9,000	
	H1=1.23	3640-S011-012SXR01					1,000	9,000	
	H1=1.73	3640-S011-017SXR01					950	8,550	
	H1=2.23	3640-S011-022SXR01					800	7,200	
	H1=2.72	3640-S011-027SXR01					800	7,200	*
	H1=3.72	3640-S011-037SXR01					650	5,850	
	H1=4.23	3640-S011-042SXR01					600	5,400	
15	H1=0.86	3640-S015-008SXR01	SX: S1=3u"Gold/Tin S3=10u"Gold/Tin S5=30u"Gold/Tin	12.30	7.00	6.00	1,000	9,000	
	H1=1.23	3640-S015-012SXR01					1,000	9,000	
	H1=1.73	3640-S015-017SXR01					950	8,550	
	H1=2.23	3640-S015-022SXR01					800	7,200	
	H1=2.72	3640-S015-027SXR01					800	7,200	
	H1=3.72	3640-S015-037SXR01					650	5,850	
	H1=4.23	3640-S015-042SXR01					600	5,400	
21	H1=0.86	3640-S021-008SXR01	SX: S1=3u"Gold/Tin S3=10u"Gold/Tin S5=30u"Gold/Tin	15.30	10.00	9.00	1,000	9,000	*
	H1=1.23	3640-S021-012SXR01					1,000	6,000	
	H1=1.73	3640-S021-017SXR01					950	5,700	
	H1=2.23	3640-S021-022SXR01					800	4,800	
	H1=2.72	3640-S021-027SXR01					800	4,800	*
	H1=3.72	3640-S021-037SXR01					650	3,900	*
	H1=4.23	3640-S021-042SXR01					600	3,600	

3640Series

Circuit 芯数	Product height 产品高度 (mm)	Part number 型号	Plating 电镀	Dimensions 尺寸 (mm)			Parkage quantity 包装数量		Remake 可量产状态
				A	B	C	Q'ty/1Reel 只/1卷装	Outer carton 外箱	
25	H1=0.86	3640-S025-008SXR01	SX: S1=3u"Gold/Tin S3=10u"Gold/Tin S5=30u"Gold/Tin	17.30	12.00	11.00	1,000	9,000	*
	H1=1.23	3640-S025-012SXR01					1,000	6,000	
	H1=1.73	3640-S025-017SXR01					950	5,700	
	H1=2.23	3640-S025-022SXR01					800	4,800	
	H1=2.72	3640-S025-027SXR01					800	4,800	
	H1=3.72	3640-S025-037SXR01					650	3,900	*
	H1=4.23	3640-S025-042SXR01					600	3,600	
31	H1=0.86	3640-S031-008SXR01	SX: S1=3u"Gold/Tin S3=10u"Gold/Tin S5=30u"Gold/Tin	20.30	15.00	14.00	1,000	6,000	
	H1=1.23	3640-S031-012SXR01					1,000	6,000	
	H1=1.73	3640-S031-017SXR01					950	5,700	*
	H1=2.23	3640-S031-022SXR01					800	4,800	
	H1=2.72	3640-S031-027SXR01					800	4,800	
	H1=3.72	3640-S031-037SXR01					650	3,900	
	H1=4.23	3640-S031-042SXR01					600	3,600	
41	H1=0.86	3640-S041-008SXR01	SX: S1=3u"Gold/Tin S3=10u"Gold/Tin S5=30u"Gold/Tin	25.30	20.00	19.00	1,000	9,000	
	H1=1.23	3640-S041-012SXR01					1,000	6,000	
	H1=1.73	3640-S041-017SXR01					950	5,700	
	H1=2.23	3640-S041-022SXR01					800	4,800	
	H1=2.72	3640-S041-027SXR01					800	4,800	
	H1=3.72	3640-S041-037SXR01					650	3,900	
	H1=4.23	3640-S041-042SXR01					600	3,600	
51	H1=0.86	3640-S051-008SXR01	SX: S1=3u"Gold/Tin S3=10u"Gold/Tin S5=30u"Gold/Tin	30.30	25.00	24.00	1,000	9,000	
	H1=1.23	3640-S051-012SXR01					1,000	6,000	
	H1=1.73	3640-S051-017SXR01					950	5,700	
	H1=2.23	3640-S051-022SXR01					800	4,800	
	H1=2.72	3640-S051-027SXR01					800	4,800	
	H1=3.72	3640-S051-037SXR01					650	1,950	
	H1=4.23	3640-S051-042SXR01					600	1,800	
69	H1=0.86	3640-S069-008SXR01	SX: S1=3u"Gold/Tin S3=10u"Gold/Tin S5=30u"Gold/Tin	39.30	34.00	33.00	1,000	3,000	
	H1=1.23	3640-S069-012SXR01					1,000	3,000	
	H1=1.73	3640-S069-017SXR01					950	2,850	
	H1=2.23	3640-S069-022SXR01					800	2,400	
	H1=2.72	3640-S069-027SXR01					800	2,400	
	H1=3.72	3640-S069-037SXR01					650	1,950	*
	H1=4.23	3640-S069-042SXR01					600	1,800	

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

Model Numbering 型号命名

3640	-	S	XXX	-	032	XX	R	01
(1)		(2)	(3)		(4)	(5)	(6)	(7)
(1) Series (系列)：1.00mm BTB Series						(5) Plating(电镀)：S1=3u"Gold/Tin、S3=10u"Gold/Tin S5=30u"Gold/Tin		
(2) Product type (产品类型)：S=Socket 插座						(6) Packing (包装)：R=Reel&Reel		
(3) Positions (位数)：009=9P.....069=69P						(7) Running Number (流水码)		
(4) Housing High(塑胶高度)：032=3.28mm								

3640	-	P	XXX	-	XXX	XX	R	01
(1)		(2)	(3)		(4)	(5)	(6)	(7)
(1) Series (系列)：1.00mm BTB Series						(5) Plating(电镀)：S1=3u"Gold/Tin、S3=10u"Gold/Tin S5=30u"Gold/Tin		
(2) Product type (产品类型)：P=Pulg 插头						(6) Packing (包装)：R=Reel&Reel		
(3) Positions (位数)：009=9P.....069=69P						(7) Running Number (流水码)		
(4) Housing High(塑胶高度)：008=0.86mm 012=1.23mm、017=1.73mm、022=2.23mm、 027=2.72mm、037=3.72mm、042=4.23mm								

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