

Technical drawing of a 0.5 Pitch Double Groove Vertical BTB Connector (B0510MAA20-XP) showing dimensions, assembly details, and specifications.

Dimensions (mm):

- Overall width: DIM D ± 0.2
- Overall height: DIM E ± 0.2
- Pin pitch: 0.50 ± 0.1
- Pin diameter: 2-φ0.50
- Pin length: 1.90 ± 0.1
- Pin spacing: DIM A ± 0.2, DIM B ± 0.15, DIM C ± 0.2
- Pin diameter: φ0.550^{+0.05}
- Pin length: 1.80, 2.20, 1.80
- Pin spacing: 0.50, 0.30
- Overall width: DIM D ± 0.05

Assembly Details:

- Top view: DIM D ± 0.2, DIM E ± 0.2, 2-φ0.50, 0.60
- Side view: 4.00, 5.20 ± 0.1, 0.10
- Front view: DIM A ± 0.2, DIM B ± 0.15, DIM C ± 0.2, 1.90 ± 0.1, 0.50 ± 0.1, 0.20 ± 0.05
- Detail view: H, H1, H2, H3

Technical Specifications:

- Plastic surface should be smooth, no burrs, no obvious shrinkage, defects, cracks, etc.
- Temperature range: -40°C ~ 85°C.
- Rated voltage: 50V, AC.
- Contact resistance: ≤ 0.02Ω.
- Insulation resistance: ≥ 100MΩ.

Material Table:

序号	品名	材质
①	0.5 Pitch双槽立式BTB公座胶芯	PA10T UL94 V-0 颜色:黑色
②	0.5 Pitch双槽立式BTB公座端子	铜合金/表面点镀金
③	0.5 Pitch双槽立式BTB公座吸盖	LCP UL94 V-0颜色:黑色.

Height Table:

High photosynthesis 合高 (H)	The female seat neight 母座单高 (H1)	The male seat neight 公座单高 (H2)	Insertion height (H3)
3.00	2.20	0.80	1.60
3.50	2.20	1.30	1.60
4.00	3.00	1.00	1.90
4.50	3.50	1.00	1.90
5.00	4.00	1.00	1.90
5.50	4.50	1.00	1.90
6.00	4.00	2.00	1.90
6.50	4.50	2.00	1.90
7.00	3.00	4.00	1.90
7.50	3.50	4.00	1.90
8.00	4.00	4.00	1.90
8.50	4.50	4.00	1.90

General Tolerance: DONGGUAN BAOXUN PRECISION TECHNOLOGY CO., LTD

Dimensions: DIM. TOL. x.x ±0.50, x.xx ±0.20, x.xxx ±0.10, GENERAL ANGLE: ±1.0°

Unit: mm

Scale: none

Sheet: 1 of 2

DWG. Size: A4

Layer: bxconn

Title: 0.5 Pitch 双槽 立式 BTB 公(单高2.0)

DWG. No.: B0510MAA20-XP

Checked: MAX

Part No.: B0510MAA20-XP

Drawn: ELLA

Approved: WILL

QR Code: B0510MAA20-XP

Technical drawing of a BTB connector assembly, showing dimensions and specifications.

The drawing includes three main views:

- Top View:** Shows the overall dimensions of the connector body. Key dimensions include:
 - Overall width: DIM E ± 0.2
 - Body width: DIM D ± 0.2
 - Pin pitch: 2-φ0.50
 - Mounting hole diameter: φ0.50 ± 0.05
- Side View:** Shows the profile of the connector. Key dimensions include:
 - Overall height: H
 - Male seat height: H1
 - Female seat height: H2
 - Insertion height: H3
- Bottom View:** Shows the pin arrangement and dimensions. Key dimensions include:
 - Pin pitch: 0.50 ± 0.1
 - Pin length: 1.90 ± 0.1
 - Pin diameter: φ0.50 ± 0.05
 - Pin spacing: 0.20 ± 0.05

Technical Specifications:

- 塑件表面应光洁、无毛边、无明显收缩、缺陷、裂纹等现象。
- 温度范围：-40°C~85°C。
- 额定电压：50V，AC。
- 接触电阻：≤0.02Ω。
- 绝缘电阻：≥100MΩ。

Material Properties:

序号	品名	材质
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Dimensions and Tolerances:

DIM.	TOL.
x.x	±0.50
x.xx	±0.20
x.xxx	±0.10
GENERAL ANGLE:	±1.0°

General Tolerance: GENERAL TOLERANCE

Title: 0.5 Pitch 双槽 立式 BTB 公(单高2.0)

DWG. NO.: B0510MAA20-XP

CHECKED: MAX

PART NO.: B0510MAA20-XP

DRAWN: ELLA

UNIT: mm

SCALE: none

SHEET: 1 of 2

DWG. SIZE: A4

LAYER: bxconn

APPROVED: WILL

QR Code: [QR Code]

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General Tolerance: DONGGUAN BAOXUN PRECISION TECHNOLOGY CO., LTD

Dimensions: DIM. TOL. x.x ±0.50, x.xx ±0.20, x.xxx ±0.10, GENERAL ANGLE: ±1.0°

Unit: mm

Scale: none

Sheet: 1 of 2

DWG. Size: A4

Layer: bxconn

Title: 0.5 Pitch 双槽 立式 BTB 公(单高2.0)

DWG. No.: B0510MAA20-XP

Checked: MAX

Part No.: B0510MAA20-XP

Drawn: ELLA

Approved: WILL

QR Code: B0510MAA20-XP

[illegible]

A		B		C		D		E	
REV.		DESCRIPTION		ECN NO.		NAME		DATE	

1											
	2										
		3									
			4								
				5							

PIN NO	PIN	DIM A	DIM B	DIM C	DIM D	DIM E
B0510MAA20-8P	8	1.50	2.50	4.70	3.40	4.00
B0510MAA20-10P	10	2.00	3.00	5.20	3.90	
B0510MAA20-12P	12	2.50	3.50	5.70	4.40	
B0510MAA20-14P	14	3.00	4.00	6.20	4.90	
B0510MAA20-16P	16	3.50	4.50	6.70	5.40	
B0510MAA20-18P	18	4.00	5.00	7.20	5.90	
B0510MAA20-20P	20	4.50	5.50	7.70	6.40	
B0510MAA20-22P	22	5.00	6.00	8.20	6.90	
B0510MAA20-24P	24	5.50	6.50	8.70	7.40	
B0510MAA20-26P	26	6.00	7.00	9.20	7.90	
B0510MAA20-28P	28	6.50	7.50	9.70	8.40	8.00
B0510MAA20-30P	30	7.00	8.00	10.20	8.90	
B0510MAA20-32P	32	7.50	8.50	10.70	9.40	
B0510MAA20-34P	34	8.00	9.00	11.20	9.90	
B0510MAA20-36P	36	8.50	9.50	11.70	10.40	
B0510MAA20-38P	38	9.00	10.00	12.20	10.90	
B0510MAA20-40P	40	9.50	10.50	12.70	11.40	
B0510MAA20-44P	44	10.50	11.50	13.70	12.40	
B0510MAA20-50P	50	12.00	13.00	15.20	13.90	
B0510MAA20-60P	60	14.50	15.50	17.70	16.40	
B0510MAA20-70P	70	17.00	18.00	20.20	18.90	
B0510MAA20-80P	80	19.50	20.50	22.70	21.40	
B0510MAA20-100P	100	24.50	25.50	27.70	26.40	

GENERAL TOLERANCE		DONGGUAN BAOXUN PRECISION TECHNOLOGY CO., LTD				BXCONN®	
DIM. x.x ±0.50 x.xx ±0.20 x.xxx ±0.10 GENERAL ANGLE: ±1.0°		TITLE: 0.5 Pitch 双槽 立式 BTB 公(单高2.0)					
		DWG. NO.: B0510MAA20-XP		CHECKED: MAX			
		PART NO.: B0510MAA20-XP		DRAWN: ELLA			
UNIT: mm	SCALE: none	SHEET: 2 of 2	DWG. SIZE: A4	LAYER: bxconn	APPROVED: WILL		