

0.4mm Pitch,0.98mm Height,Board-to-Board/Board-to-FPC Connectors
(BB20S Series)

Product Specification
(For External Use)

Rev.	Description	Written/Date	Checked/Date	Approved/Date
A	New Release	Bian Sen 08-04-2012	Tiger 08-08-2012	Dickson Guan 08-10-2012
B	Logo changed	Tyler Liu 03-07-2018	Jason bian 03-07-2018	Dickson Guan 03-07-2018

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Product Specifications

Rating	Rated current 0.5A Rated voltage 60V AC/DC	Operating temperature range : -40ç to 85ç Operating humidity range : 20% to 80%	Storage temperature range: -40ç to 85ç Storage humidity range : 20% to 80%
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Item	Specification	Conditions
1. Insulation resistance	1000 M Ω min.	250V DC
2. Withstanding voltage	No flashover or insulation breakdown.	250V AC /one minute
3. Contact resistance	50 m Ω max initial 90 m Ω max final	Subject mated contacts assembled in housing to 20mV maximum open circuit at 10 mA maximum
4. Vibration	No electrical discontinuity of 1 μ s or more	Frequency: 10 to 55 Hz, single amplitude of 1.5mm, 2 hours along each X,Y,Z, total 6 hours
5. Humidity	Contact resistance: 90 m Ω max. Insulation resistance: 100 M Ω min.	120 hours at temperature of 40ç \pm 2ç and RH of 90% to 95%
6. Temperature cycle	Contact resistance: 90 m Ω max. Insulation resistance: 100 M Ω min.	Temperature: -55ç/+5ç/+35ç/+85ç Duration: 30/10/10/30 (Minutes) 5 cycles
7. Durability	Contact resistance: 90 m Ω max.	100 cycles
8. Resistance to soldering heat	No deformation of components affecting performance.	Reflow: At the recommended temperature profile Manual soldering: 300ç for 3 seconds
9. Salt water spray	1). Appearance shall not be distinct damage. 2). Resistance value after test After test: 90m Ω Maximum.	Temperature: 35 $^{\circ}$ C \pm 2 $^{\circ}$ C Density of salt water : 5 \pm 1% Duration: 24 hours.
10. Mating&Unmating Force	Mating force: Maximum 100grams/terminal x total terminals. Unmating force: Minimum 40grams/terminal x total terminals.	Measure force necessary to mate assemblies at maximum rate of 25 \pm 3 mm per minute.

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Materials and Finishes

Connectors	Component	Material	Finish		Remarks
Socket	Insulator	LCP	Color : Black		UL94V-0
	Contacts	Phosphor bronze	plating	Contact area: Au 4u" Min, Ni 80-150u"	
				Solder area: Au 4u" Min, Ni 80-150u"	
Plug	Insulator	LCP	Color : Black		UL94V-0
	Contacts	Phosphor bronze	plating	Contact area: Au 4u" Min, Ni 80-150u"	
				Solder area: Au 2u" Min, Ni 80-150u"	

Ordering information (Socket)

YXT-BB20S-S-00**

1 2 3 4

1. YXT:YXT PRECISION TECHNOLOGY CO.,LTD.
2. Series name: BB20S(0.4mm pitch 0.98mm height Board to Board/FPC Connectors)
3. Number of positions: 10,20, 24, 30, 34, 40, 50, 60, 70, 80 S-(Socket)
4. 00(standard,without hold down)

Ordering information (Plug)

YXT-BB20S-P-00**

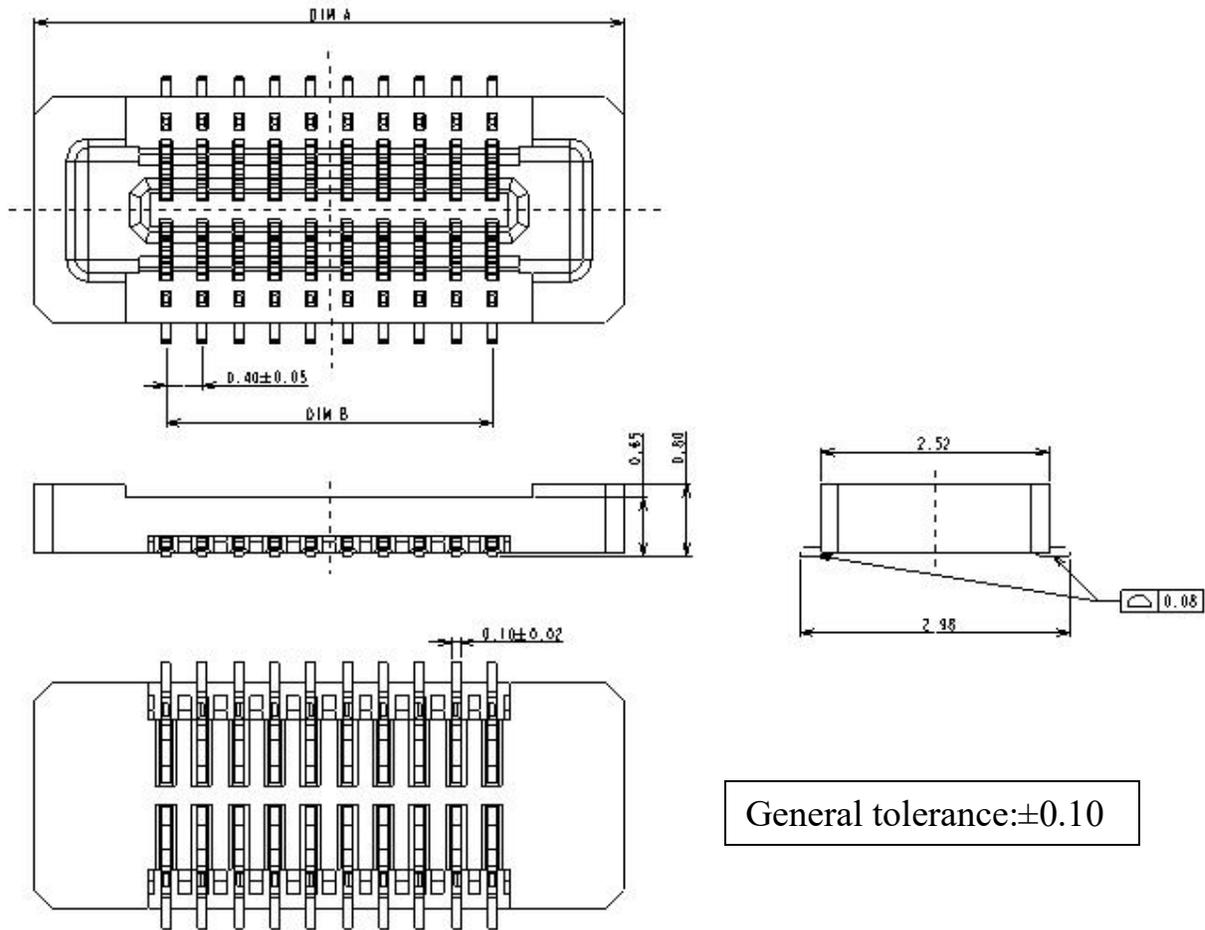
1 2 3 4

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2. Series name: BB20S(0.4mm pitch 0.98mm height Board to Board/FPC Connectors)
3. Number of positions: 10,20, 24, 30, 34, 40, 50, 60, 70, 80 P- (Plug)
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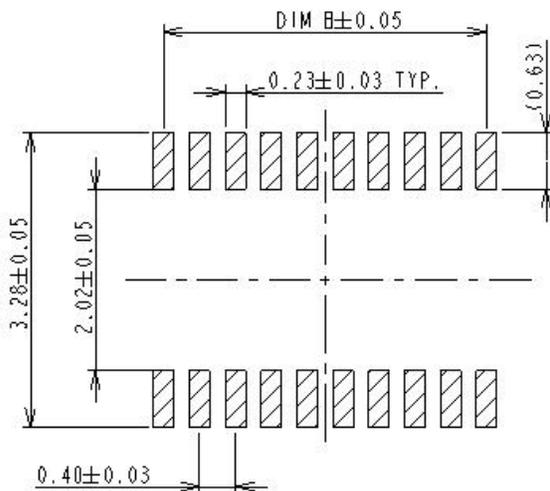
Socket (CAD Data)



General tolerance:±0.10

Recommended PCB mounting pattern

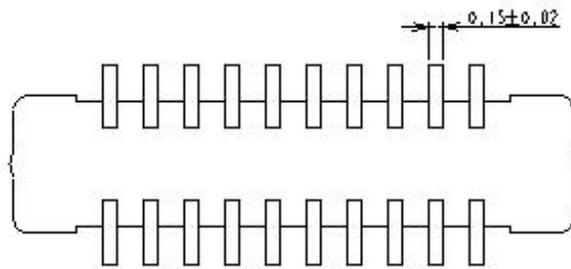
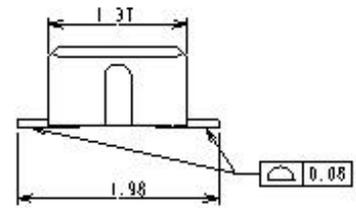
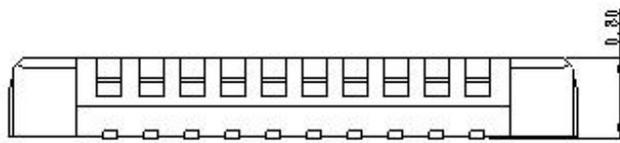
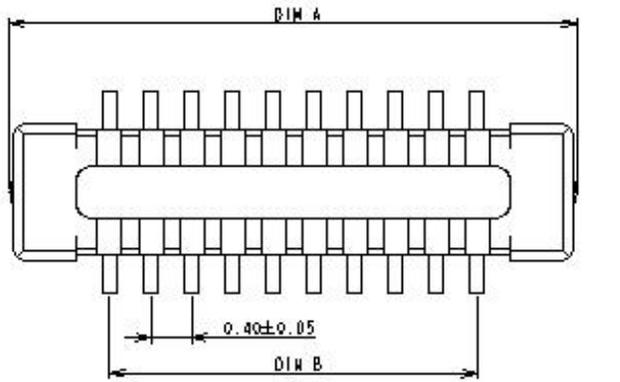
Dimension table (Unit: mm)



Part Number	Number of contacts	DIM A	DIM B
YXT-BB20S-10S-00	10	4.50	1.60
YXT-BB20S-20S-00	20	6.50	3.60
YXT-BB20S-24S-00	24	7.30	4.40
YXT-BB20S-30S-00	30	8.50	5.60
YXT-BB20S-34S-00	34	9.30	6.40
YXT-BB20S-40S-00	40	10.50	7.60
YXT-BB20S-50S-00	50	12.50	9.60
YXT-BB20S-60S-00	60	14.50	11.60
YXT-BB20S-70S-00	70	16.50	13.60
YXT-BB20S-80S-00	80	18.50	15.60

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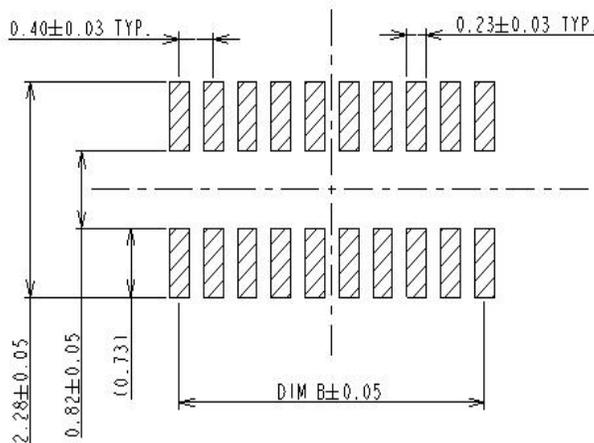
Plug (CAD Data)



General tolerance:±0.10

Recommended PCB mounting pattern

Dimension table (Unit: mm)

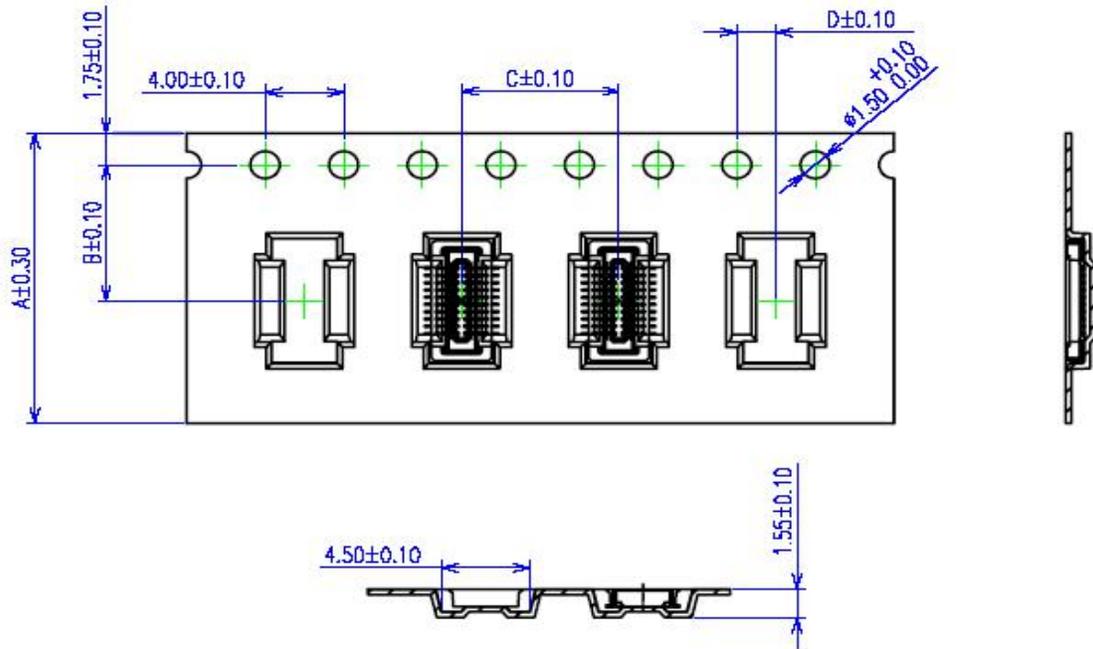


Part Number	Number of contacts	DIM A	DIM B
YXT-BB20S-10P-00	10	3.56	1.60
YXT-BB20S-20P-00	20	5.56	3.60
YXT-BB20S-24P-00	24	6.36	4.40
YXT-BB20S-30P-00	30	7.56	5.60
YXT-BB20S-34P-00	34	8.36	6.40
YXT-BB20S-40P-00	40	9.56	7.60
YXT-BB20S-50P-00	50	11.56	9.60
YXT-BB20S-60P-00	60	13.56	11.60
YXT-BB20S-70P-00	70	15.56	13.60
YXT-BB20S-80P-00	80	17.56	15.60

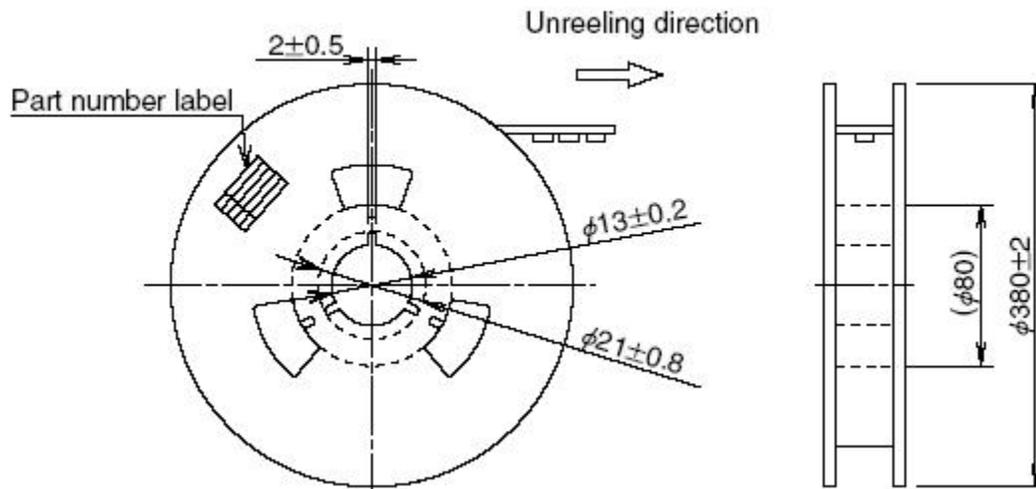
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Packing Specification

Embossed Carrier Tape Dimensions-Socket



Reel Dimensions--Socket



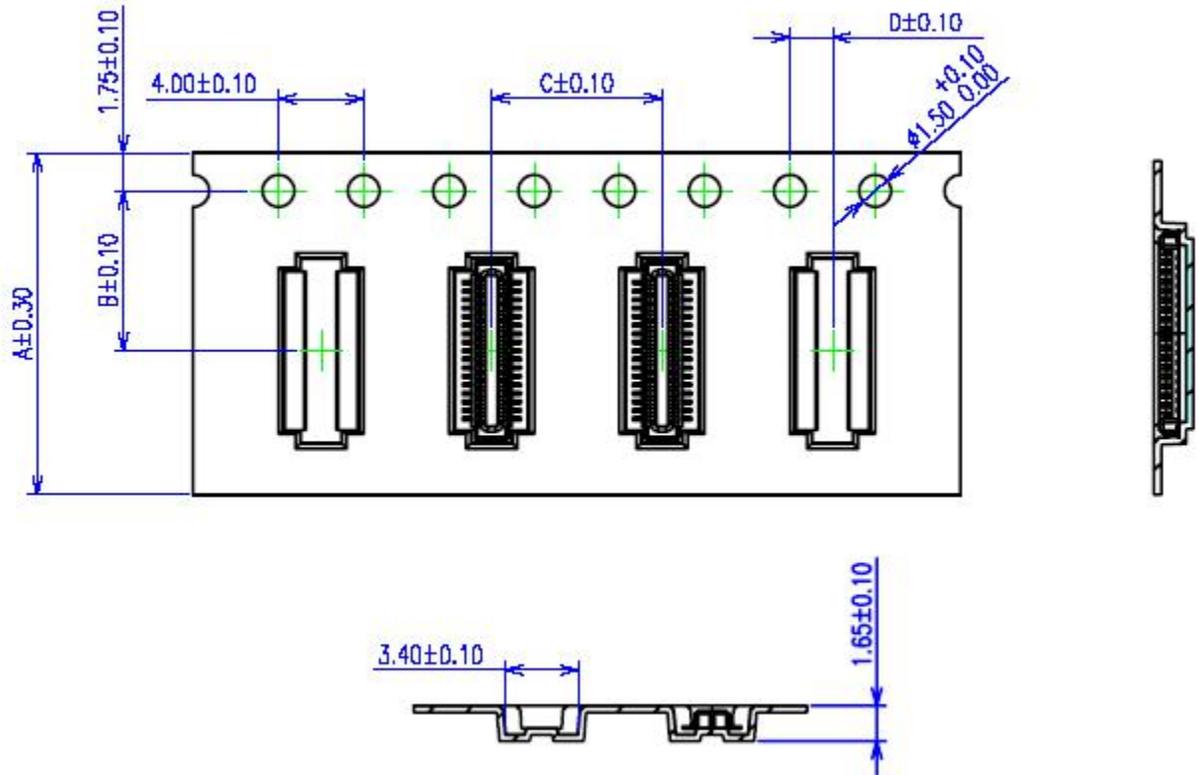
0.4mm Pitch,0.98mm Height,Board-to-Board/Board-to-FPC Connectors (BB20S Series)

Dimension table (Unit: mm)

Part Number	A	B	C	D	Quantity(PC/REEL)
YXT-BB20S-10S-00	16	7.125	8	2	5000
YXT-BB20S-20S-00	16	7.125	8	2	5000
YXT-BB20S-24S-00	16	7.125	8	2	5000
YXT-BB20S-30S-00	16	7.125	8	2	5000
YXT-BB20S-34S-00	24	11.125	8	2	5000
YXT-BB20S-40S-00	24	11.125	8	2	5000
YXT-BB20S-50S-00	24	11.125	8	2	5000
YXT-BB20S-60S-00	24	11.125	8	2	5000
YXT-BB20S-70S-00	32	14.25	8	2	5000
YXT-BB20S-80S-00	32	14.25	8	2	5000

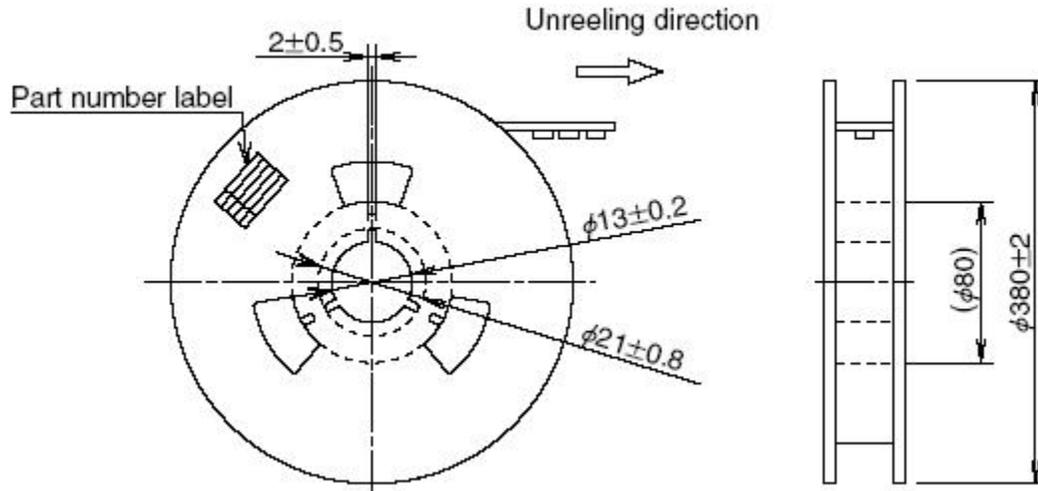
Packing Specification

Embossed Carrier Tape Dimensions-Plug



0.4mm Pitch, 0.98mm Height, Board-to-Board/Board-to-FPC Connectors (BB20S Series)

Reel Dimensions--Plug



Dimension table (Unit: mm)

Part Number	A	B	C	D	Quantity(PC/REEL)
YXT-BB20S-10P-00	16	7.125	8	2	5000
YXT-BB20S-20P-00	16	7.125	8	2	5000
YXT-BB20S-24P-00	16	7.125	8	2	5000
YXT-BB20S-30P-00	16	7.125	8	2	5000
YXT-BB20S-34P-00	24	11.125	8	2	5000
YXT-BB20S-40P-00	24	11.125	8	2	5000
YXT-BB20S-50P-00	24	11.125	8	2	5000
YXT-BB20S-60P-00	24	11.125	8	2	5000
YXT-BB20S-70P-00	32	14.25	8	2	5000
YXT-BB20S-80P-00	32	14.25	8	2	5000