

**0.4mm Pitch,0.8mm Height,Board-to-Board/Board-to-FPC Connectors
(BB10 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	B×3	Bian Sen 09-05-2014	Tiger 09-05-2014	Dickson Guan 09-05-2014
C	C×1 Add Part Number(6 pin、8pin)	Bian Sen 01-22-2015	Tiger 01-22-2015	Dickson Guan 01-23-2015
D	D×2 Modify PCB mounting pattern	Bian Sen 06-01-2015	Tiger 06-01-2015	Dickson Guan 06-02-2015
E	E Add Test Item	Bian Sen 01-27-2016	Tiger 01-27-2016	Dickson Guan 01-27-2016
F	F Add Part Number(4 pin)	Bian Sen 07-02-2016	Tiger 07-02-2016	Dickson Guan 07-02-2016
G	Logo changed	Tyler Liu 03-07-2018	Jason bian 03-07-2018	Dickson Guan 03-07-2018
H	Change of packaging	Maggie Yan 11-07-2019	Jim Wang 11-07-2019	Jason bian 11-07-2019

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Rating	Rated current 0.5A/PIN Rated voltage 60V AC/DC	Operating temperature range : -55℃ to +85℃ Operating humidity range : 20% to 80%	Storage temperature range: -55℃ to +85℃ Storage humidity range : 20% to 80%
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Item	Specification	Conditions
1. Insulation resistance	1000 MΩ min.	250V DC
2. Withstanding voltage	No flashover or insulation breakdown.	250V AC /one minute
3. Contact resistance	50 mΩ max initial 90 mΩ max final	Subject mated contacts assembled in housing to 20mV maximum open circuit at 10 mA maximum
4. Vibration	No electrical discontinuity of 1 μs 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 mΩ max. Insulation resistance: 100 MΩ min.	120 hours at temperature of 40℃±2℃ and RH of 90% to 95%
6. Temperature cycle	Contact resistance: 90 mΩ max. Insulation resistance: 100 MΩ min.	Temperature: -55℃/+5℃/+35℃/+85℃ Duration: 30/10/10/30 (Minutes) 5 cycles
7. Durability	Contact resistance: 50 mΩ max.	100 cycles
8. Resistance to soldering heat	No deformation of components affecting performance.	Reflow: At the recommended temperature profile Manual soldering: 300℃ for 3 seconds
9. Salt water spray	1). Appearance shall not be distinct damage. 2). Resistance value after test After test: 90mΩ Maximum. Insulation: 1). Initial: 1000 MΩ Minimum. 2). After test: 100 MΩ Minimum.	Temperature: 35℃±2℃ Density of salt water : 5±1% Duration: 48 hours.
10. Mating&Unmating Force	Initial Mating force: Maximum 100grams/terminal x total terminals. Unmating force: Minimum 30grams/terminal x total Terminals. After 50 times durable Mating force: Maximum 100grams/terminal x total terminals. Unmating force: Minimum 20grams/terminal x total Terminals.	Measure force necessary to mate assemblies at maximum rate of 25±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”	
	Hold down	Phosphor bronze	plating	Matte Tin 100-200u” , Ni 80-150u”	
Plug	Insulator	LCP	Color : Black		UL94V-0
	Contacts	Phosphor bronze	plating	Contact area:Au 3u” Min,Ni 80-150u”	
				Solder area:Au 3u” Min,Ni 80-150u”	
	Hold down	Phosphor bronze	plating	Matte Tin 100-200u” , Ni 80-150u”	

Ordering information (Socket)

YXT-BB10--S-02**

1 2 3 4

1. YXT: YXT PRECISION TECHNOLOGY CO., LTD.
2. Series name: BB10(0.4mm pitch 0.8mm height Board to Board/FPC Connectors)
3. Number of positions: 06, 08, 10, 14, 16, 20, 24, 30, 34, 40, 50, 60, 70, 80 S-(Socket)
4. 02(standard, with hold down)

Ordering information (Plug)

YXT-BB10--P-02**

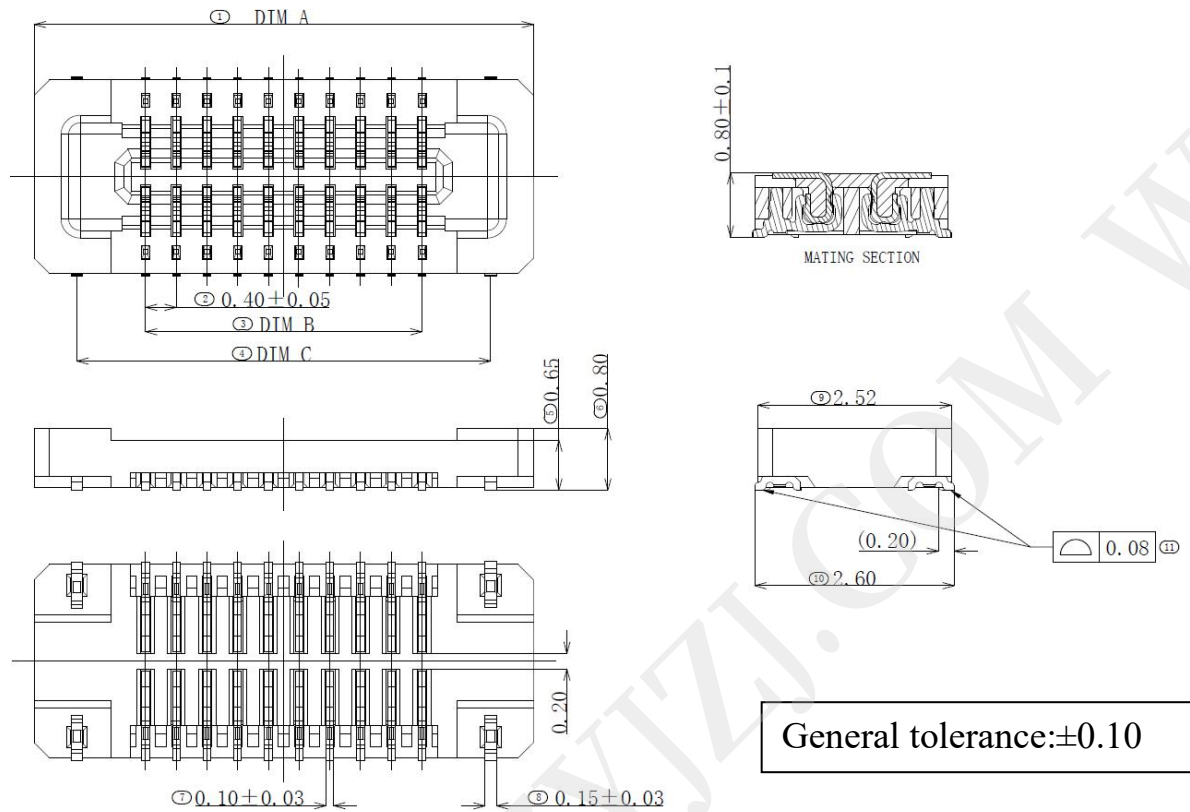
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4. 02(standard, with hold down)



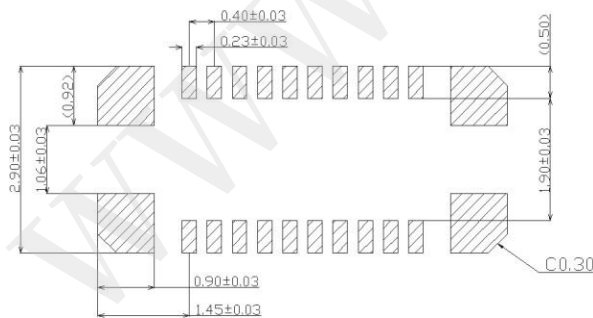
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Socket (CAD Data)



Recommended PCB mounting pattern

Dimension table (Unit: mm)

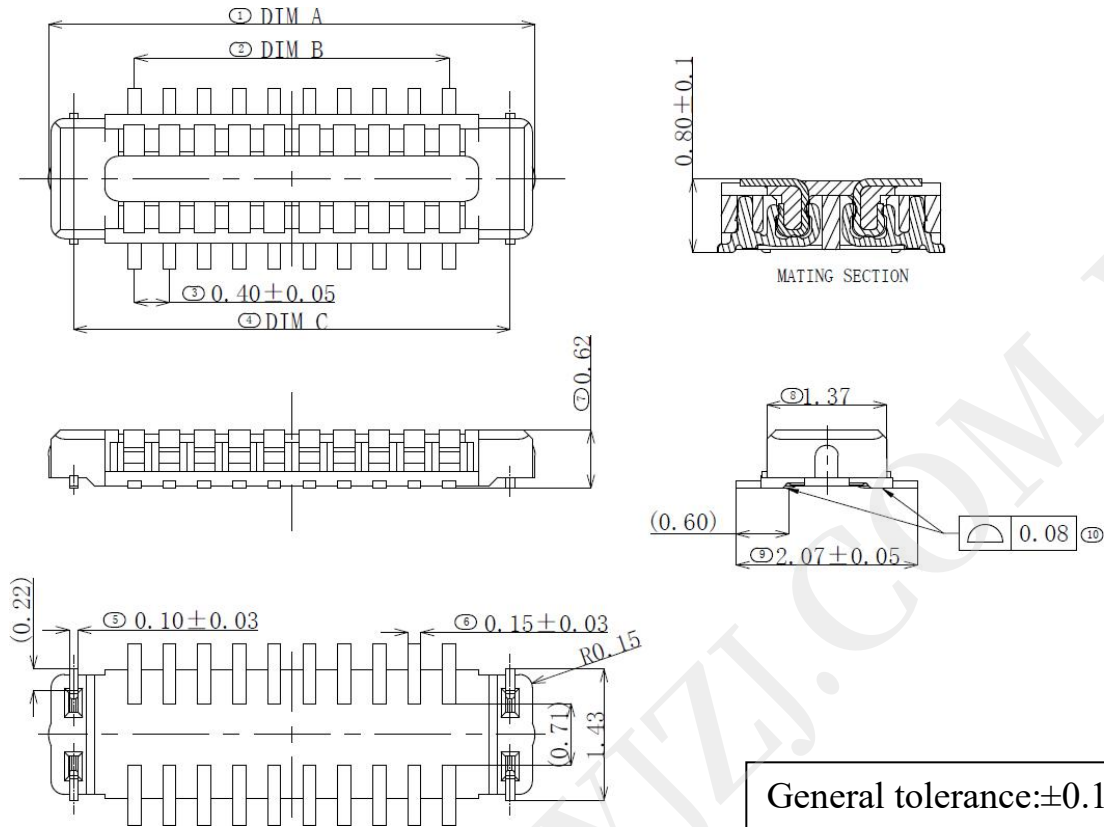


B

Part Number	Number of positions	DIM A	DIM B	DIM C
YXT-BB10-06S-02	06	3.70	0.80	2.59
YXT-BB10-08S-02	08	4.10	1.20	2.99
YXT-BB10-10S-02	10	4.50	1.60	3.39
YXT-BB10-14S-02	14	5.30	2.40	4.19
YXT-BB10-16S-02	16	5.70	2.80	4.59
YXT-BB10-20S-02	20	6.50	3.60	5.39
YXT-BB10-24S-02	24	7.30	4.40	6.19
YXT-BB10-30S-02	30	8.50	5.60	7.39
YXT-BB10-34S-02	34	9.30	6.40	8.19
YXT-BB10-40S-02	40	10.50	7.60	9.39
YXT-BB10-50S-02	50	12.50	9.60	11.39
YXT-BB10-60S-02	60	14.50	11.60	13.39
YXT-BB10-70S-02	70	16.50	13.60	15.39
YXT-BB10-80S-02	80	18.50	15.60	17.39

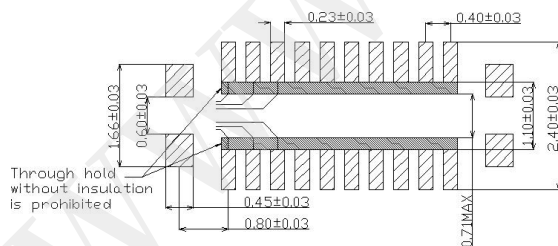
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Plug (CAD Data)



Recommended PCB mounting pattern

Dimension table (Unit: mm)

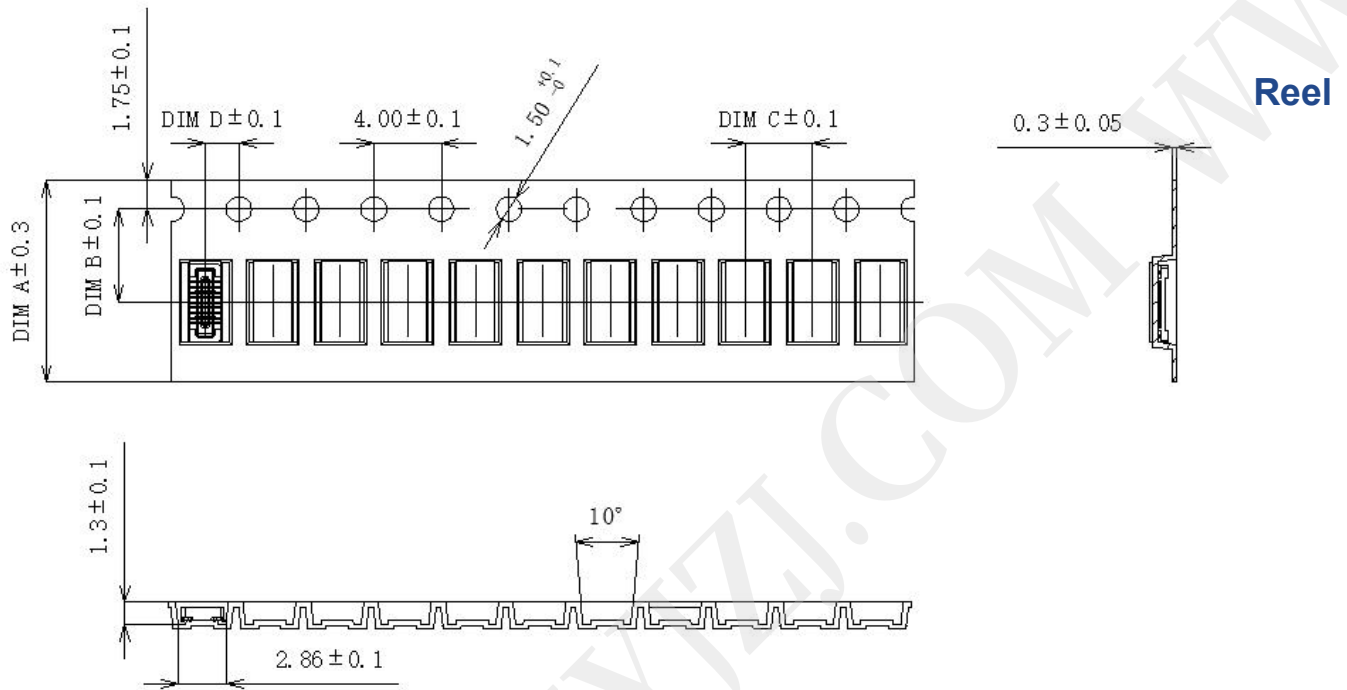


Part Number	Number of positions	DIM A	DIM B	DIM C
YXT-BB10-06P-02	06	2.76	0.80	2.19
YXT-BB10-08P-02	08	3.16	1.20	2.59
YXT-BB10-10P-02	10	3.56	1.60	2.99
YXT-BB10-14P-02	14	4.36	2.40	3.79
YXT-BB10-16P-02	16	4.76	2.80	4.19
YXT-BB10-20P-02	20	5.56	3.60	4.99
YXT-BB10-24P-02	24	6.36	4.40	5.79
YXT-BB10-30P-02	30	7.56	5.60	6.99
YXT-BB10-34P-02	34	8.36	6.40	7.79
YXT-BB10-40P-02	40	9.56	7.60	8.99
YXT-BB10-50P-02	50	11.56	9.60	10.99
YXT-BB10-60P-02	60	13.56	11.60	12.99
YXT-BB10-70P-02	70	15.56	13.60	14.99
YXT-BB10-80P-02	80	17.56	15.60	16.99

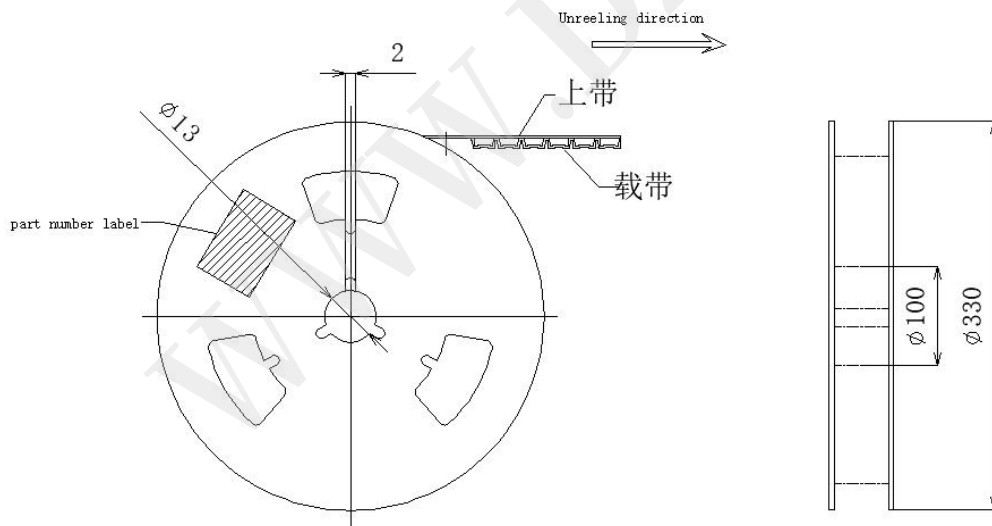
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Packing Specification

Embossed Carrier Tape Dimensions-Socket



Dimensions--Socket



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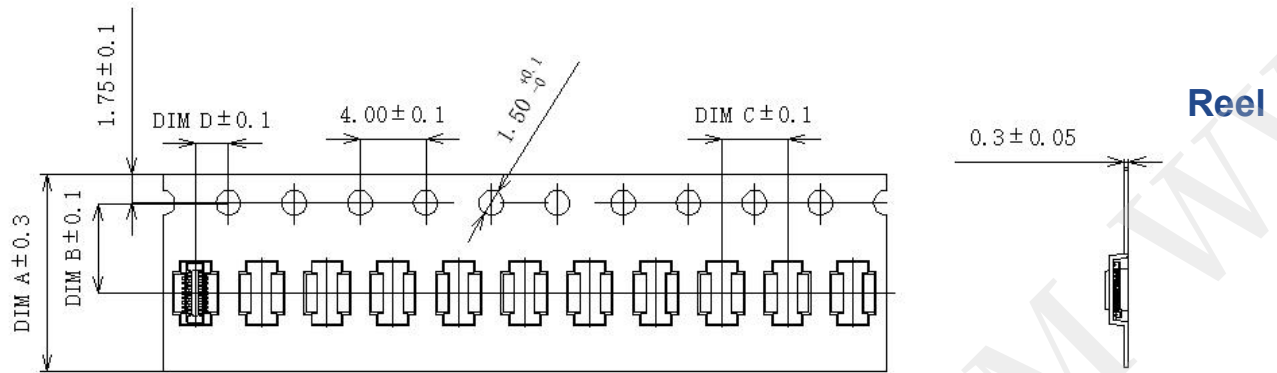
Dimension table (Unit: mm)

Part Number	DIM A	DIM B	DIM C	DIM D	Quantity(PC/REEL)
YXT-BB10-06S-02	12	5.5	4	2	10000
YXT-BB10-08S-02	12	5.5	4	2	10000
YXT-BB10-10S-02	12	5.5	4	2	10000
YXT-BB10-14S-02	12	5.5	4	2	10000
YXT-BB10-16S-02	16	7.5	4	2	10000
YXT-BB10-20S-02	16	7.5	4	2	10000
YXT-BB10-24S-02	16	7.5	4	2	10000
YXT-BB10-30S-02	16	7.5	4	2	10000
YXT-BB10-34S-02	24	11.5	4	2	10000
YXT-BB10-40S-02	24	11.5	4	2	10000
YXT-BB10-50S-02	24	11.5	4	2	10000
YXT-BB10-60S-02	24	11.5	4	2	10000
YXT-BB10-70S-02	32	14.5	4	2	10000
YXT-BB10-80S-02	32	14.5	4	2	10000

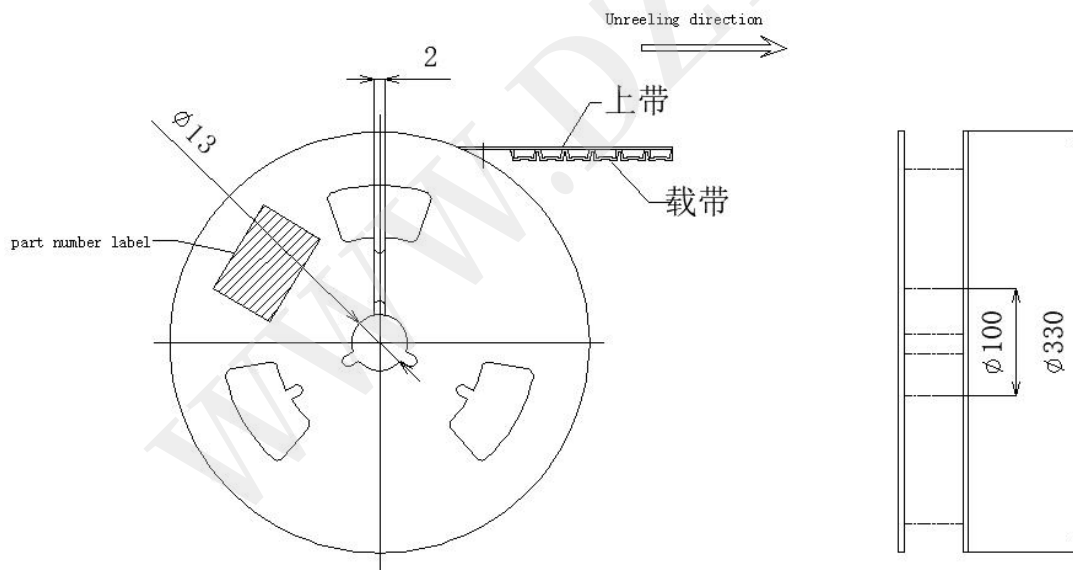
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Packing Specification

Embossed Carrier Tape Dimensions-Plug



Dimensions--Plug



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Dimention table (Unit: mm)

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YXT-BB10-08P-02	12	5.5	4	2	10000
YXT-BB10-10P-02	12	5.5	4	2	10000
YXT-BB10-14P-02	12	5.5	4	2	10000
YXT-BB10-16P-02	16	7.5	4	2	10000
YXT-BB10-20P-02	16	7.5	4	2	10000
YXT-BB10-24P-02	16	7.5	4	2	10000
YXT-BB10-30P-02	16	7.5	4	2	10000
YXT-BB10-34P-02	16	7.5	4	2	10000
YXT-BB10-40P-02	24	11.5	4	2	10000
YXT-BB10-50P-02	24	11.5	4	2	10000
YXT-BB10-60P-02	24	11.5	4	2	10000
YXT-BB10-70P-02	32	14.5	4	2	10000
YXT-BB10-80P-02	32	14.5	4	2	10000