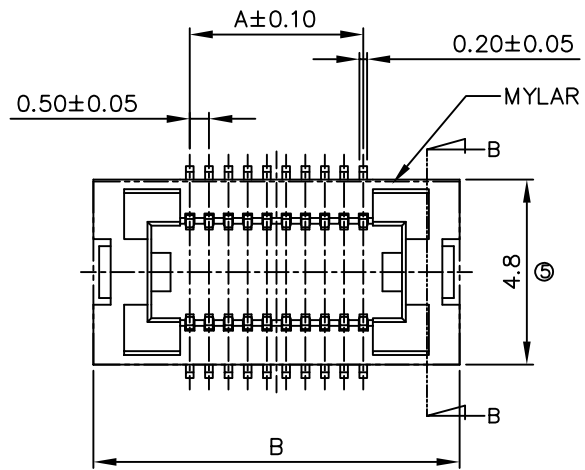
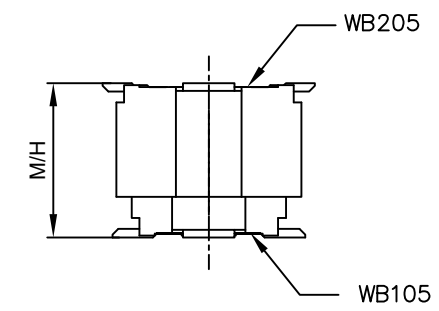
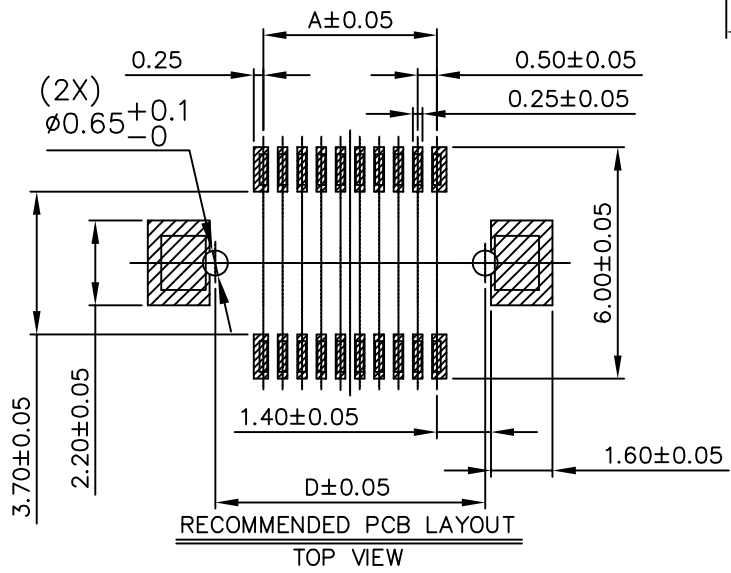
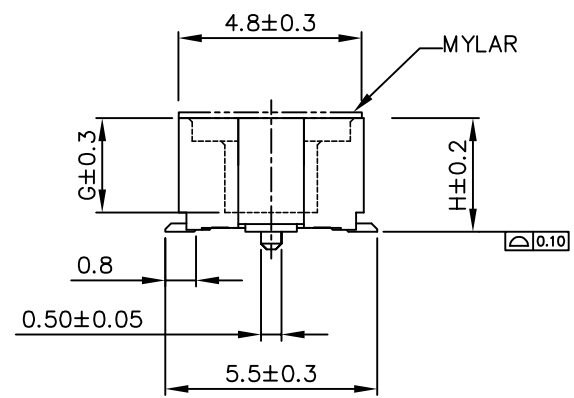
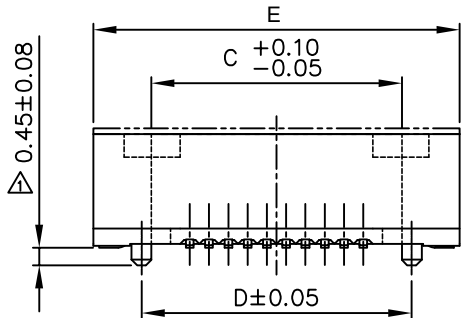




NOTES: 1.INSULATOR: HIGH-TEMP THERMOPLASTIC, UL94V-0
 COLOR: BLACK OR NATURE
 2.CONTACT: COPPER ALLOY
 PLATING: GOLD FLASH OR TIN
 3.Rated Voltage :50V AC/DC, Rated Current :0.5A AC/DC
 ORDER INFORMATION: WB205 - X XX X- 01~09 X
 PIN TYPE
 E: POST AND FITTING NAIL
 L: POST
 F: FITTING NAIL ADD MYLAR
 N: NO POST AND FITTING NAIL
 M: POST AND FITTING NAIL ADD MYLAR
 PLATING
 F: GOLD FLASH
 E: TIN
 WB205: 0.5 BOARD TO BOARD SMT V/T TYPE FEMALE
 (HALOGEN FREE)



MYLAR OPTION	
E	PIN NO.
6.0	10~18 PN
8.8	20~60 PN

M A I	MALE	FEMAL	G	H	PIN NO.	A	B	C	D
2.0	01	01	1.2	1.50	10	2.0	7.0	4.0	4.5
2.5	X2	X2	1.5	2.00	12	2.5	7.5	4.5	5.0
3.0		03	2.0	2.50	14	3.0	8.0	5.0	5.5
3.5	04	03	2	2.50	16	3.5	8.5	5.5	6.0
4.0		04	2.5	3.00	18	4.0	9.0	6.0	6.5
5.0		05	3.5	4.00	20	4.5	9.5	6.5	7.0
6.0		06		5.00	22	5.0	10.0	7.0	7.5
7.0		07		6.00	24	5.5	10.5	7.5	8.0
8.0		08		7.00	26	6.0	11.0	8.0	8.5
9.0		09		8.00	28	6.5	11.5	8.5	9.0
4.5	05	04	2.5	3.00	30	7.0	12.0	9.0	9.5
5.5		05	3.5	4.00	32	7.5	12.5	9.5	10.0
6.5		06		5.00	34	8.0	13.0	10.0	10.5
7.5		07		6.00	36	8.5	13.5	10.5	11.0
8.5		08		7.00	38	9.0	14.0	11.0	11.5
9.5	06	09		8.00	40	9.5	14.5	11.5	12.0
12.0		06	3.5	5.00	42	10.0	15.0	12.0	12.5
13.0		07		6.00	44	10.5	15.5	12.5	13.0
14.0	07	08		7.00	46	11.0	16.0	13.0	13.5
15.0		09		8.00	48	11.5	16.5	13.5	14.0
12.5		06	3.5	5.00	50	12.0	17.0	14.0	14.5
13.5		07		6.00	52	12.5	17.5	14.5	15.0
14.5		08		7.00	54	13.0	18.0	15.0	15.5
15.5		09		8.00	56	13.5	18.5	15.5	16.0
					58	14.0	19.0	16.0	16.5
					60	14.5	19.5	16.5	17.0
					62	15.0	20.0	17.0	17.5
					64	15.5	20.5	17.5	18.0
					66	16.0	21.0	18.0	18.5
					68	16.5	21.5	18.5	19.0
					70	17.0	22.0	19.0	19.5
					80	19.5	24.5	21.5	22.0

CUSTOMER

东莞市文章济美电子有限公司

GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED

X.X ±0.10
X.XX ±0.05
X.XXX ANG. ±0°30'

DRAWN

Nelly Feb-22-2020

CHECKED

APPROVED

SHEET

1/1

UNIT

MM

SCALE

5?1

SIZE

A4

REV

B

PART NO.

JME205-XXXX-01~09X

TITLE?

0.5 BOARD TO BOARD SMT V/T TYPE FEMALE

REN2020062702

leo

06/27/20

SER

REVISIONS

CHK

DATE

GROUP AND TEST SEQUENCE

[illegible]

PRODUCT SPECIFICATION

1. SCOPE :

This specification covers the 0.5 mm pitch board To board SMT type connector series.

2. PRODUCT NAME AND PART NUMBER :

Product Name	WIT Part Number
0.50mm Board To Board Connector, V/T, SMT Type Female (Lead Free)	WB205-XXXX-XXX

3. RATINGS :

Item	Standard	
Rated Voltage (MAX.)	50 V	AC/DC
Rated Current (MAX.)	0.5A	
Operating and Non-operating Temperature Range	-40 ⁰ C ~ +85 ⁰ C*	
Storage Temperature Range	-10 ⁰ C ~ +50 ⁰ C*	

*Including terminal temperature rise

4.PERFORMANCE :

4- 1 Electrical Performance

Item		Test Condition	Requirement
4-1-1	Contact Resistance	Test Current: 100 mA Max. Test Voltage: 20mV Max Test Method: MIL-STD-202F, Method 303	50 mΩ MAX.
4-1-2	Insulation Resistance	Test Voltage: 100VAC. Test Duration: 1 minutes. Test Method: MIL-STD-202, method 302	Initial: 500 MΩ Min
			Final: 100 MΩ Min.
4-1-3	Dielectric Strength	Test Voltage: 200V AC. Test Time: 60 sec. Test Method: MIL-STD-202, Method 301.	No Breakdown

4-2 Mechanical Performance

Item		Test Condition	Requirement	
4-2-1	Insertion Force And Withdrawal Force	Test Speed: 25±3 mm/min. Test Method: MIL-STD-1344A, Method 2016.	Insertion Force Max : 0.09kgf X total terminals	
			Withdrawal Force(Min): 0.01kgf X total terminals	
4-2-2	Terminal / Housing Retention Force	Test Speed: 25mm/min.	0.15kgf (Min)	
4-2-3	Durability	The contacts of connector shall be subject to 50 cycles of mating and unmating.	Contact Resistance	
			Initial Value	50 mΩ
			Final Value	70 mΩ

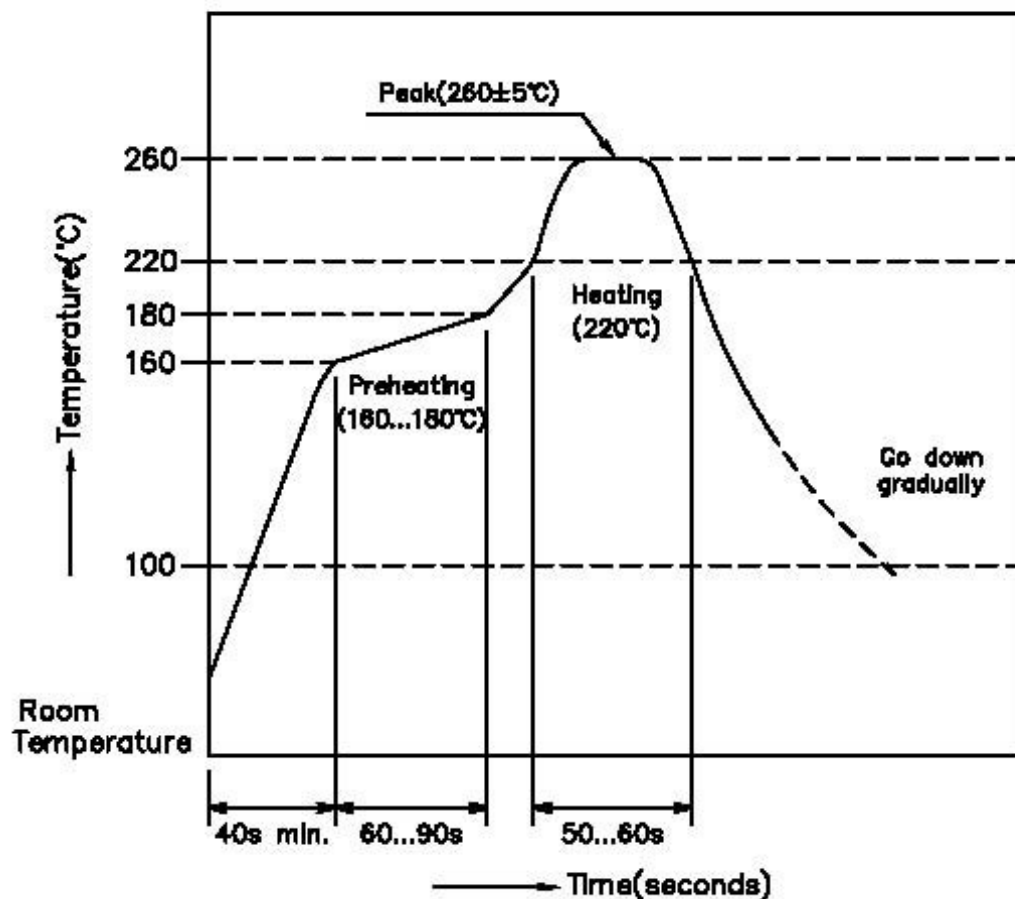
4-3 Environmental Performance and Others

Item		Test Condition	Requirement	
4-3-1	Vibration	Amplitude : 1.5 mm Frequency range: 10~55~10 Hz in 1 minute Duration: 2 hours in each X.Y.Z axes Current: 100mA. Test Method: MIL-STD-202F, Method 201	Appearance	No Damage
			Contact Resistance	70 mΩ
			Discontinuity	1μsec
4-3-2	Heat Resistance	Temperature: 85±2℃ Duration: 96 hours Test Method: MIL-STD-202, Method 108.	Appearance	No Damage
			Contact Resistance	70 mΩ
4-3-3	Cold Resistance	Temperature: -40±2℃ Duration: 96 hours Test Method: JIS C60068-2-1	Appearance	No Damage
			Contact Resistance	70 mΩ
4-3-4	Humidity	Temperature: 40±2℃ Relative Humidity: 90~95% Duration: 96 hours Test Method: MIL-STD-202F , Method 103	Appearance	No Damage
			Contact Resistance	70 mΩ
			Insulation Resistance	≥ 100MΩ
			Dielectric Strength	Must meet 4-1-3

Item		Test Condition	Requirement	
4-3-5	Solder Ability	Soldering Time : 3±0.5 sec Solder Temperature : 245±5℃ Test Method: MIL-STD-202F , Method 208G	Solder Wetting	95% Of Immersed Area Must Show No Voids, Pin Holes
4-3-6	Resistance To Soldering Heat	Soldering Time : 10±0.5 sec Solder Temperature : 260±5℃ Test Method: MIL-STD-202F , Method 210A	Appearance	No Damage
4-3-7	Steam Aging	Steam Aging Temperature : 98±2℃ Duration: 8 hours Solder Temperature : 245±5℃ Soldering Time : 3±0.5 sec Test Method: MIL-STD-202F , Method 208	Appearance	No Damage
			Solder Wetting	95% Of Immersed Area Must Show No Voids, Pin Holes
4-3-8	Salt Spray	Chamber Temperature : 35±2℃ Air Tank Temperature : 47±1℃ Salt Solution : 5 ± 0.5% Duration : 48 hours Test Method: MIL-STD-202 , Method 101D	Appearance	No Damage
			Contact Resistance	70 mΩ
4-3-9	Temperature Cycling	5 cycles of : a) - 55 ±3℃ 30 minutes b) +25 ±3℃ 30 minutes c)+ 85 ±2℃ 30 minutes Test Method: JIS C0025	Appearance	No Damage
			Contact Resistance	70 mΩ
4-3-10	Temperature Rise Test	Carrying rated current load. EIA-364-70B	Temperature Rise : 30 °C (MAX)	

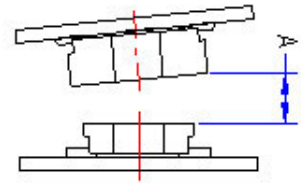
INFRARED REFLOW CONDITION

- 1) Ascending time to preheating temperature 170°C shall be 40 seconds minimum.
- 2) Preheating shall be fixed at 160...180°C for 60...90 seconds.
- 3) Heating shall be fixed at 220°C for 50...60 seconds.
- 4) At 260±5°C peak shall be 10 seconds maximum.



Precaution in the connector handing.

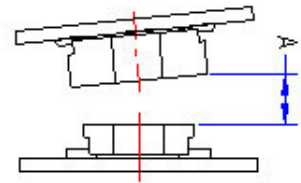
1. Please try that the connector parallel is mated is mated
Into or unmated form the counterpart connector
in parallel.



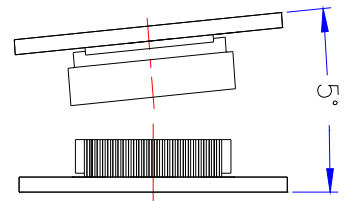
2. Mating (into the counterpart connector)

At the time of mating please do not continue to mate the
connector if there is the gap.

A to the one side, please mate the connectors when the both
guides are guided.

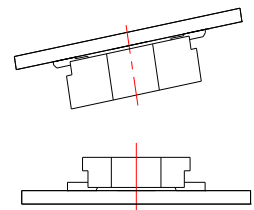


When mating plug with receptacle obliquely ,please make
mating within an angle of 5° .

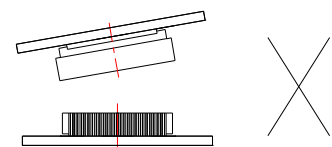


3. Unmating (from the counterpart connector)

Please do not extract the one side of the printed circuit board.
Please extract the printed circuit board in parallel with the
connector.



4. Please do not bend the printed circuit board in the arrow
direction.



5. After mating connectors , fix the PCB/PWB in order not for them to disengage.

COPPER ALLOY SPECIFIC

Article	Standard NO	Dimension & Tempe
C2680	JIS H 3100	0.2mm X 8.5mm RH

Chemocal Compositions (%)									
Element	Cu	Pb	Fe	Sn	Zn	P	Ni	Mn	Mg
Spec.	64~68	0.0500↓	0.05↓	—	REM	—	—	—	—
Actual	65.21	0.0001	0.01	—	REM	—	—	—	—

Mechanical Properties.								
Item	Grain Size	Hardness	Tension Strength	Elongation	Electrical Conductivity	Bending Test	Surface Roughness	Camber
Unit	mm	HV	Kgf/mm	%	% IACS	180 °	Ra(μm)	mm/1M
Spec.	—	160~175	52~62	8↑	—	—	—	—
Actual	—	164	53.9	16.3	—	—	—	—

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Component - Plastics [guide info]**E106764****POLYPLASTICS CO LTD**

18-1 KONAN 2 CHOME, MINATO TOKYO 1088280 JP

E130i(d)(e)(f2)

Liquid Crystal Polymer (LCP), thermotropic aromatic polyester, "VECTRA" or "LAPEROS", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.2	V-0	-	-	130	130	130
	0.38	V-0	-	-	130	130	130
	0.75	V-0	2	0	240	220	240
	1.5	V-0	1	0	240	220	240
	3.0	V-0	0	0	240	220	240

Comparative Tracking Index (CTI): 4

Dielectric Strength (kV/mm): 39

High-Voltage Arc Tracking Rate (HVTR): 0

Dimensional Stability (%): 0

Inclined Plane Tracking (IPT): -

Volume Resistivity (10^x ohm-cm): 16High Volt, Low Current Arc Resis
(D495): 5

(d) - Virgin and regrind up to 50% by weight incl., have the same basic material characteristics in NC and BK with a minimum thickness of 0.75mm.

(e) - Regrind from 26-50% by weight inclusive has an Impact RTI of 180C at thicknesses greater than 1.5mm.

(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1992-08-19

Last Revised: 2014-08-22

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**IEC and ISO Test Methods**

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.2	V-0 (ALL)
			0.38	V-0 (ALL)
			0.75	V-0 (ALL)
			1.5	V-0 (ALL)
			3.0	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	0.38	960
			0.75	960
			1.5	960
			3.0	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	0.38	850
			0.75	850
			1.5	850
			3.0	900
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-

RELEASE HISTORY

Rev.	Revisions	Date	Executor	Description
A	REN200225002	Feb -25-2020	Max	First Release

UNREELING DIRECTION

2.00

12.00

4.00

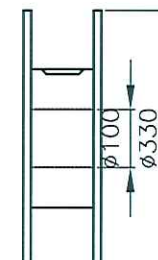
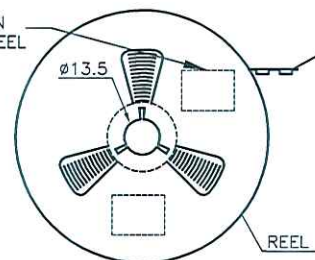
0.30

 $\phi 1.50^{+0.1}_{-0}$

B0

B0-2.25

SEC B-B

THE LABEL PASTED IN
THE BACK OF THE REEL

CKT	10	14	18	22	26	30	34	38	42	46
PIN	10	12	14	16	18	20	22	24	26	28
W	016	024	024	024	024	024	024	024	024	032
B0	7.75	8.75	9.75	10.75	11.75	12.75	13.75	14.75	15.75	16.75

CKT	50	54	58	62	66	70	74	78	82	86
PIN	50	52	54	56	58	60	62	64	66	68
W	032	032	032	044	044	044	044	044	044	044
B0	17.75	18.75	19.75	20.75	21.75	22.75	23.75	24.75	25.75	26.75

CKT	90	94	98	B0	C0	D0	E0	F0	G0
PIN	90	92	94	96	98	A0	B0	C0	D0
W	044	044	044	056	056	056	056	056	072
B0	27.75	28.75	29.75	32.30	34.80	37.30	39.80	42.30	44.80

ITEM	A0	A1	K0	K1	PITCH	PCS/REEL
DIM	5.10	6.50	3.00	3.60	12.00	1500

W	W1	W2
16	7.50	7.50
24	11.50	11.50
32	28.40	14.20
44	40.40	20.20
56	52.40	26.20
72	68.40	34.20

- NOTES: 1.10 SPROCKET HOLE PITCH CUMULATIVE TOLERANCE ± 0.20 .
 2.CARRIER CAMBER IS WITHIN 1mm IN 250mm
 3.MATERIAL : BLACK CONDUCTIVE POLYSTYRENE ALLOY
 4.COMPONENT LOAD PER 13" REEL: 1500 pcs. TOTAL LENGTH:19.18 Meters.
 5.FOR WB205-XXXX-X3X
 6.THIS DRAWING PRODUCTS COMPLY WITH THE WIT GREEN PRODUCT SPECIFICATION

ORDER INFORMATION: X 3 XX N - 0012 - 0 XX

TYPE CKT:10~98,A0=100,B0=110,C0=120
 PRODUCT DIRECTION D0=130,E0=140,F0=150,G0=160
 CARRIER WIDTH
 CARRIER PITCH
 R:PLASTIC CARRIER
 L:PAPER CARRIER

东莞市文章济美电子有限公司

GENERAL TOLERANCE
 UNLESS
 OTHERWISE SPECIFIED
 X.X ± 0.2
 X.XX ± 0.1
 X.XXX ± 0.05
 ANG. $\pm 2^\circ$

DRAWN
 Nelly Dec-18-2019
 CHECKED
 APPROVED
 SHEET

PART NO.
 X3XXN-0012-OXX
 TITLE
 WB205-XXXX-X3X

UNIT
 MM
 SCALE
 2:1
 SIZE
 A4
 REV
 A