			Control N	10	EI064		
CR	S Prod	cision electronic Co., LTD	Issued B	Y	ED		
			Date Iss		2021/11/06		
	ment	SPEC-BT0405H-XXXXX	Date Rev Revised		2021/11/06		
Na	me	SPEC-BT0406H-XXXXX			A0		
			•				
_ 变更履	历:						
版本号		变更内容	日期	変更ノ	人 核准		
AO	新版发行	Ē	2021-11-03	于小芳	Leo_he		
├							
┃							

		Control NO	EI064		
CPS Droc	vision ala	ctronic Co., LTD	Issued BY	ED	
CKS FIEL			Date Issued	2021/11/06	
Document	SPEC-B	F0405H-XXXXX	Date Revised	2021/11/06	
Name	SPEC-B	F0406H-XXXXX	Revised Edition	A0	
 Scope Applicable dod Requirements Test Requirem Reflow solderi Connector test 	ents and Prong condition	_INDEX- cedures Summary			
Approva	-	Check By		ator By	
Shenz	nıjın	Leo-he	Yu	xiaofang	

CRS Precision electronic Co., LTD Document Name SPEC-BT0405H-XXXXX SPEC-BT0406H-XXXXX

Control NO	EI064
Issued BY	ED
Date Issued	2021/11/06
Date Revised	2021/11/06
Revised Edition	A0

1. Scope:

This specification covers the performance requirements of the 0.4mm Pitch BTB connector .

2. Applicable documents: EIA-364: ELECTRONICS INDUSTRIES ASSOCIATION

- 3. Requirements:
 - 3.1 Design and Construction
 - 3.1.1 Product shall be of design, construction and physical dimensions specified on applicable product drawing.
 - 3.1.2 All materials confirm to R.o.H.S.

3.2 Materials and Finish

- 3.2.1 Contact: copper alloy.
 - Finish: (a) Contact Area: Refer to the drawing.
 - (b) Under plate: Refer to the drawing.
 - (c) Solder area: Refer to the drawing.
- 3.2.2 Housing: UL94V-0 ,Refer to the drawing.
- 3.3 Ratings
 - 3.3.2 Voltage: 50 Volts DC RMS (per pin)
 - 3.3.3 Current: 0.5 A (per pin)
 - 3.3.4 Operating Temperature : -55° C to $+85^{\circ}$ C

CRS Precision electronic Co., LTD

Document SPEC-BT0405H-XXXXX Name SPEC-BT0406H-XXXXX

Control NO	EI064
Issued BY	ED
Date Issued	2021/11/06
Date Revised	2021/11/06
Revised Edition	A0
	Issued BY Date Issued Date Revised

breakdown.Current

leakage: 1 mA max.

30°C max change allowed

4. Test Requirements and Procedures Summary:

Withstanding

Temperature Rise

Voltage

5

		APPEARANCE REQUIREMENTS				
N0.	Test Item	Test Procedure	Requirements			
1	Visual and	Visual, dimensional and functional per	Meets requirements of			
I	dimensional	applicable quality inspection plan.	product drawing. No			
I	inspections	EIA 364-18	physical damage.			
		ELECTRICAL PERFORMANCE				
N0.	Test Item	Test Procedure	Requirements			
2	Contact Resistance	Mate connectors, measure by dry circuit, 20mV Max., 10mA Max. EIA 364 -23	Initial: 90 mΩ Maximum Final: 120 mΩ Maximum			
3	Insulation resistance	Test between adjacent contacts of unmated connector assemblies apply a voltage of 500V DC for 1 minute EIA 364-21	100 MΩ Minimum			
4	Dielectric	150 VAC Min. at sea level for 1	No discharge,flashover or			

minute. Test between adjacent

EIA-364-20

EIA 364-70 Method A

25℃

contacts of unmated connectors.

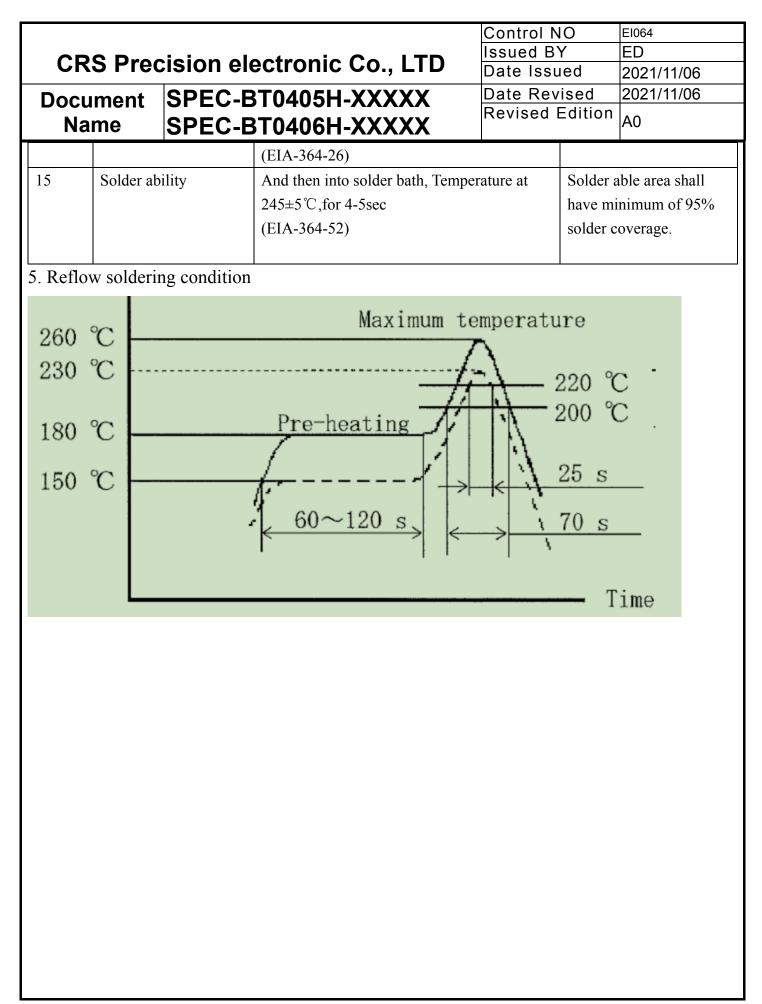
Mate connector: measure the Temperature Rise at rated current until temperature

stable. The ambient condition is still air at

Mechanical Performance

				Control N	0	EI064
C	RS Dro	cision al	ectronic Co., LTD	Issued B		ED
	NJ FIE			Date Issu		2021/11/06
Doc	ument	SPEC-E	3T0405H-XXXXX	Date Rev		2021/11/06
Name SPEC-		SPEC-E	BT0406H-XXXXX	Revised E	dition	A0
			Ι			
N0.	Test Item	1	Test Procedure		Require	ements
6	Durabilit	ry	The sample should be mounted the tester and fully mated and unmated the number of cycles specified at the rate of 120time/Hours. EIA-364-09	in	50 cycle	es
7	Mating / Forces	Unmating	Operation Speed: 25.4 ± 3 mm/minute Measure the force required to mate/Unmate connector. (EIA-364-13)	Speed: nm/minute he force required to nate connector.		
8	Contact I Force	Retention	Operation Speed: 25.4 ± 3 mm/minute Measure the contact retention for tester	orce with	0.1Kgf	Min.
9	Vibration	1	The electrical load condition sha be 100 mA maximum for all contacts. Subject to a simple harmonic motion having amplith of 0.76mm (1.52mm maximum total excursion) in frequency between the limits of 10 and 55 The entire frequency range, from 10 to 55 Hz and return to 10 Hz shall be traversed in approximat 1 minute. This motion shall be applied for 2 hours in each of th mutually perpendicular direction	ude Hz. n , tely ree	Discont Max.	inuity :1 µ sec

				Control	NO	E1064	
	29 Dra	cicion o	lectronic Co., LTD	Issued E		ED 2021/11/06	
U				, 2410 101			
Doc	ument	SPEC-	BT0405H-XXXXX	XX Date Re		2021/11/06	
Name SPEC-			BT0406H-XXXXX	Revised	Edition	A0	
10	Mechani	cal Shock	Accelerate Velocity: 490m/s2 Waveform: Half-sine shock plu Duration: 11msec No. of Drops: 3 drops each to reversed directions of X,Y and 2 totally 18 drops, passing DC 1m during the test. { EIA 364-27B }	normal and Z axes,	inuity :1 µ sec		
			Environmental Performanc	e			
N0.	Test Item	1	Test Procedure		Require	ements	
11	Resistand Soldering		Pre Heat: 150°C~180°C, 60~120sec. Heat: 200~220°C .,3-6sec. Peak Temp.: 260°C Max, 3-6sec. (EIA-364-56)	Shall meet visual requirement, show no physical damage.			
12	Thermal ShockMate module and subject to follow condition for 5 cycles.Shall mee requirement					eet visual nent, show no l damage.	
13	Humidity	ý	Mated Connector 40°C, 90~95% RH,96hours (EIA-364-31, Condition a,Meth	Shall meet visual requirement, show no physical damage.			
14	Salt Spra	ıy	Subject mated/unmated connectors to 5% salt-solution concentration, 35°C 24 hours		require	eet visual nent, show no l damage.	



								ntrol		EIO		
CRS Precision electronic Co., L								ued E		E		
								Date Issued			2021/11/06	
Do	cument	SPEC-BT04	105H	H-XX	(XX)	<		te Re			21/11/	'06
	Name	SPEC-BT04	1061	<u> -XX</u>	<u>(XX)</u>	<u> </u>	Re	visea	Editio	on AC)	
6. Cor	nnector test and	d sequence										
	Test or Ex	amination					Test	Group				
No.		Item	Α	В	C	D	E	F	G	Н	Ι	/
					·		Test S	equenc	e			
1	Examination	of Product	1,6	1,6	1,4	1,10	1,9	1,6	1,3	1,3	1,3	/
2	Contact Resistance		2,5	2,5		2,9	2,8	2,5				/
3	Insulation Re	esistance			2	3,8	3,7					/
4	Dielectric Withstanding Voltage				3	4,7	4,6					/
5	Temperature Rise		3									/
6	Durability			3								/
7	Mating / Unr	nating Forces		4								/
8	Contact Rete	ntion Force								2		/
9	Vibration							3				/
10	Mechanical S	Shock						4				/
11	Resistance to	Soldering Heat									2	/
12	Thermal Shock		4									/
13	Humidity					5						/
14	4 Salt Spray					6	5					/
15	15 Solderability								2			/
Num	ber of Test Sar	4	4	4	4	4	2	2	2	2	/	
Note												

Note:

1. Samples shall be prepare in accordance with applicable manufacture's instructions and shall be selected at random from current production.

2. The numbers in the table indicate sequence in which tests are performed.

3. All the tests shall be performed in the sequence, indicated by the number in the columns.