SPEC. NO.: PS-52725-XXXXX-XXX

REVISION: B

PRODUCT NAME: 0.6mm PITCH EDGE CARD CONN.

STRADDLE D/R S/T TYPE.

PRODUCT NO:

52725 ,52726 , 52727 SERIES

PREPARED:	CHECKED:	APPROVED:
CH.Tseng	LS.Lin	PT.Chen
DATE: 2020/03/17	DATE: 2020/03/17	DATE: 2020/03/17



Aces P/N: 52725 SERIES

TITLE: 0.6MM PITCH EDGE CARD CONN. STRADDLE D/R S/T TYPE.

RELEASE DATE: 2020.03.17

REVISION: B

ECN No: 2003224

PAGE: 2 OF 9

1	REVISION HISTORY	3
	SCOPE	
	APPLICABLE DOCUMENTS	
4	REQUIREMENTS	4
	PERFORMANCE	
6	INFRARED REFLOW CONDITION	8
7	PRODUCT QUALIFICATION AND TEST SEQUENCE	9
	ASSEMBLY TOOLING RECOMMEND	

Aces P/N: 52725 SERIES						
TITLE: 0.6MM PITCH EDGE CARD CONN. STRADDLE D/R S/T TYPE.						
RELEASE DATE: 2020.03.17 REVISION: B ECN No: 2003224 PAGE: 3 OF 9						
	DGE CARD CON	DGE CARD CONN. STRADDLE D/R S/T TYPE.				

1 Revision History

Rev.	ECN #	Revision Description	Prepared	Date
Α	ECN-2001139	NEW PRODUCT RELEASE	CH. Tseng	2019/12/02
В	ECN-2003224	Add item 8	CH. Tseng	2020/03/17

			Aces P/N: 5	2725 SERIES	
Т	ITLE: 0.6MM PIT	CH EDGE CARD	CONN. STR	ADDLE D/R S/T TY	′PE.
REL	EASE DATE: 2020.03.17	REVISION: B		ECN No: 2003224	PAGE: 4 OF 9
2	SCOPE				
	•	•		nd quality requirem	
3	APPLICABLE	DOCUMENTS			
	EIA-364: Electric EIA-364-1000: E	al connector/Socket	Test Procedue thodology fo	als in Devices and ap ures Including Enviro r assessing the perfo siness office applicati	nmental Classifications rmance of electrical
4	REQUIREMEN	ITS			
	4.1 Design and Co	onstruction			
	appl	icable product drawi	ng.	on and physical dimer	
	4.2 Materials and	Finish			
		ct: High performance n: (a) Contact Are (b) Under plate	ea: Refer to the Refer to the	e drawing. drawing.	
	4.2.3 Mylar	: Polyester., UL94V- ail: High performance	r Thermoplas 0 e alloy(<mark>Brass</mark> e: Refer to th	tic High Temp., UL94 or Stainless steel) e drawing.	-V-0
	4.3 Ratings				
	4.3.2 Storag	ating Temperature : ge conditions: -5°C to nt Rating: 1.1A			

Page 4

Aces P/N: 52725 SERIES							
TITLE: 0.6MM PITCH EDGE CARD CONN. STRADDLE D/R S/T TYPE.							
RELEASE DATE: 2020.03.17 REVISION: B ECN No: 2003224 PAGE: 5 OF 9							
5 Performance 5.1. Test Requirements and Procedures Summary							
ltem	Requirement	Star	ndard				
	Product shall meet requirements of						

Examination of Product	applicable product drawing and	per applicable quality inspection			
	specification.	plan.			
	ELECTRICAL				
Item	Requirement	Standard			
Low Level Contact Resistance	Initial: <mark>30 mΩ</mark> Max. After test: <u></u> 15 mΩ Max	Mate connectors, measure by dry circuit, 20mV Max., 100mA Max. (EIA-364-23)			
Insulation Resistance	1000 MΩ Min.	After 100 VDC for 1 minute, measure the insulation resistance between the adjacent contacts of unmated connector assemblies. (EIA-364-21)			
Dielectric Withstanding Voltage	No discharge, flashover or breakdown. Current leakage: 0.5 mA max.	300 VAC Min. at sea level for 1 minute. Test between adjacent contacts of unmated connectors. (EIA-364-20C Method B)			
Temperature Rise	30°C Max. Change allowed	Voltage Rating: 29V Current Rating: 1.1A Mate connectors: measure the temperature rise at rated current until temperature stable. The ambient condition is still air at 25°C Tested per EIA 364-70, up to a maximum of 1-6 total pins per side, 12 pins total (EIA-364-70)			

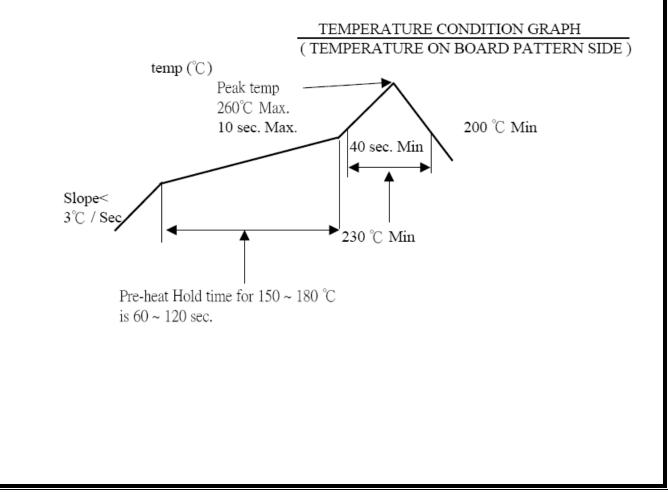
	A	ces P/N: 52725 S	ERIES	
E: 0.6MM PITCH E	DGE CARD CC	NN. STRADDLE	D/R S/T TYPE.	
E DATE: 2020.03.17	REVISION: B	ECN No: 2	2003224	PAGE: 6 OF
		ECHANICAL		
Item		quirement		ndard
Durability			the tester and ful unmated the nun (EIA-364-09)	nber of cycles.
Durability(precondition)) Perform 5 ma	ate/unmate cycles.	No evidence of p (EIA-364-09)	hysical damage
Mating Un-mating Force	Mating Force 1.1N / pin Pa Un-mating Fo 0.1N / pin Pa	air Maximum orce:	Measure the force mate/unmate cor (EIA-364-13)	
Vibration	microsecond	tinuities of ≧ l electrical, mechanica nental criteria	1 g2/Hz (slope up) al 20 Hz to 500 Hz Input acceleration	Hz to 20 Hz @ 0.02 @ 0.02 g2/Hz (flat) on is 3.13 g RMS axis for all 3 axes on dom control limit
Mechanical Shock	No discontinu 1 microsecor	uity longer than nd allowed.	half-sine shook p 11milliseconds d in each direction	luration 3 shocks
Resistance to Reflow Soldering Heat	No discharge	3	Pre Heat : 150℃ 60~120sec. Heat : 230℃ Mir Peak Temp. : 26 10sec Max	n., 40sec Min. 60℃ Max,
Reseating	Appearance:	: No damage	Manually mated/ connector or soc cycles.	

		Aces P/N: 5	2725 SE	RIES		
TITLE	0.6MM PITCH EDG	E CARD CONN. STR	ADDLE D	/R S/T TYPE.		
RELEASE	E DATE: 2020.03.17 RE	VISION: B	ECN No: 20	03224	PAGE: 7 OF 9	
		ENVIRON				
	Item	Requireme	- Standard			
	Thermal Shock	See Product Qualification		Mate module and subject to follow		
	Temperature Life	No physical damage		60 °C field temperature and per EIA 364-100 (105 °C / 72 hr.) (EIA-364-17)	d Test Duration 0 Table 8	
	Temperature Life (precondition)	No physical damage No physical damage See Product Qualification and Test Sequence Group 1		60 °C field temperature. Test Temperature and Test Duration per EIA 364-1000 Table 9 (105 °C / 36 hr.) (EIA-364-17) Test condition : Cycle the connector between $15^{\circ}C \pm 3^{\circ}C$ and $85^{\circ}C \pm 3^{\circ}C$, Humidity is not controlled Test Duration : Ramps should be a minimum of 2 °C per minute, and dwell times should insure that the contacts reach the temperature extremes (a minimum of 5 inutes) Number of cycles: Perform 10 such cycles (EIA-364-1000)		
	Thermal Disturbance					
	Salt Spray			Subject mated co salt-solution con Gold plating 30 t (EIA-364-26)	centration, 35°C	
	Humidity-Temperature Cycling		ge Test condition : Method III wit conditioning Cycle the conne- between 25 °C ± 3 °C at 80 % 3% RH and 65 °C ± 3 °C at 5 3% RH. Ramp times should b hour and dwell times should b hour Number of cycles: Perform 24 continuous cycles (EIA-364-31)		le the connector $3 ^{\circ}C at 80 \% \pm$ $C \pm 3 ^{\circ}C at 50 \% \pm$ mes should be 0.5 mes should be 1.0 s: Perform 24	
	Solder Ability	Tin plating: Solder able area shall h minimum of 95% solder Gold plating: Solder able area shall h minimum of 75% solder	coverage. ave	Add then into sol	lder bath, 245 ±5℃, for 4-5	

Aces P/N: 52725 SERIES								
TITLE: 0.6MM PITCH EDGE CARD CONN. STRADDLE D/R S/T TYPE.								
RELEASE DATE: 2020.03.17	REVISION: B	ECN No	o: 2003224	PAGE: 8 OF 9				
Mix Flowing Gas (MFG) Electrical, mechanica environmental criteri		 a) Reference: EL b) Gas Concentra NO₂ 200± 50ppb SO₂ 100± 20ppb c) Temperature: d) Humidity: 70= e) Test Duration: 	30± 1°C; ± 2% RH : exposed 160hours applicable AIC card ing with				

Note. Flowing Mixed Gas shall be conduct by customer request.

6 INFRARED REFLOW CONDITION



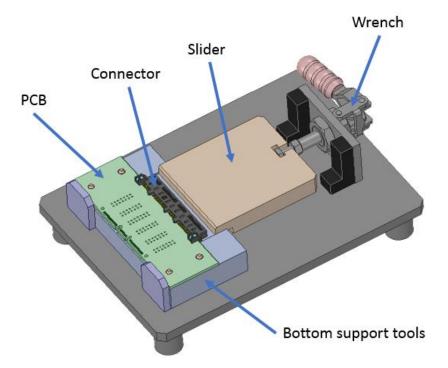
		Ace	es P/N:	52725	SER	IES				
TITLE: 0.6MM PITCH EDG	E CAR		IN. STI	RADDL	E D/R	S/T TY	ΈE.			
RELEASE DATE: 2020.03.17 RE	VISION: I	З		ECN N	lo: 20032	24		PAC	Ge: 9 of	9
7 PRODUCT QUALIFICA		AND	TEST	SEQU	ENCE					
Test or Examination	Test Group									
Test of Examination	1	2	3	4	5 Test Se	6 quence	7	8	9	10
Examination of Product	1,8	1,10	1,10	1,12	1,8	1	1	1	1	1
Low Level Contact Resistance	2,5,7	2,5,7,9	2,5,7,9	2,5,7,9 ,11	2,9					
Insulation Resistance					3,10					
Dielectric Withstanding Voltage					4,11					
Temperature Rise						2				
Durability					6					
Durability(precondition)	3	3	3	3						
Mating / Unmating Forces					5,7					
Vibration			6							
Mechanical Shock			8							
Resistance to Reflow Soldering Heat										2
Reseating	6	8		10						
Thermal Shock		4								
Thermal Disturbance				8						
Temperature Life	4									
Temperature Life(precondition)			4	4						
Salt Spray								2		
Humidity-Temperature Cycling		6								
Solder Ability									2	
Mix Flowing Gas (MFG)				6						
Sample Size	5	5	5	5	5	5	5	5	5	5
I <u>r</u>	<u></u>									<u> </u>

	Aces P/N: 52725 SERIES					
TITLE: 0.6MM PITCH EDGE CARD CONN. STRADDLE D/R S/T TYPE.						
RELEASE DATE: 2020.03.17	REVISION: B ECN No: 2003224 PAGE: 10 OF 9					

8 ASSEMBLY TOOLING RECOMMEND

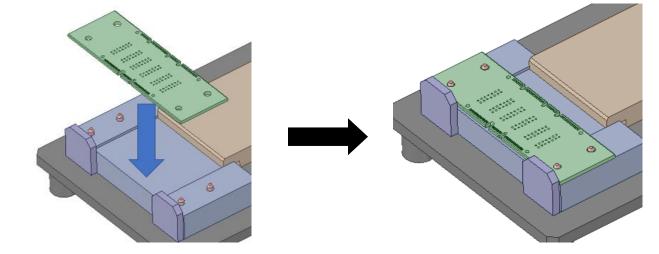
It's only recommended, the customer can make the corresponding adjustment according to the corresponding connector inserting force.

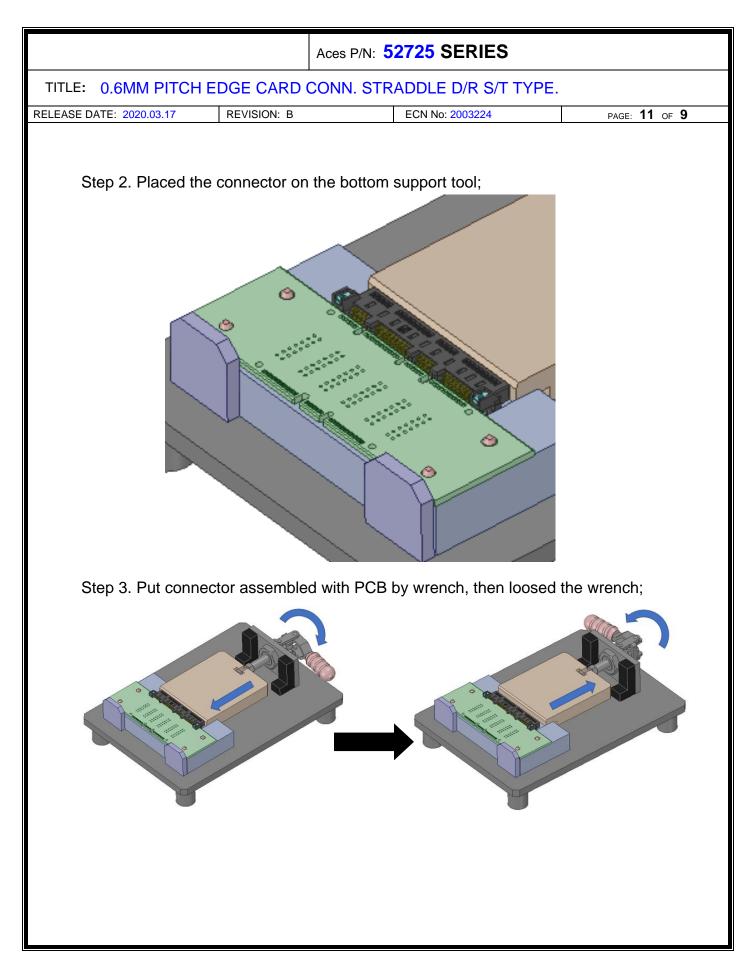
8.1 TOOLGING RECOMMEND



8.2 ASSEMBLY PROCEDURE

Step 1. Placed PCB on the Bottom Support tool, the buttom support tool cylinder cooperate with holed of PCB.





Aces P/N: 52725 SERIES				
TITLE: 0.6MM PITCH EDGE CARD CONN. STRADDLE D/R S/T TYPE.				
RELEASE DATE: 2020.03.17	REVISION: B	ECN No: 2003224	PAGE: 12 OF 9	

Step 4. Lock the connector on the PCB use screw spec ISO 7045 M2 (china Standard GB 823), the spec please refer to table 1. And recommend the torque 1.7Kgf/cm

	Table 1	
	Screw spec	Mother board thickness
	M2*6	1.57 mm
		1.93 mm
		2.36 mm