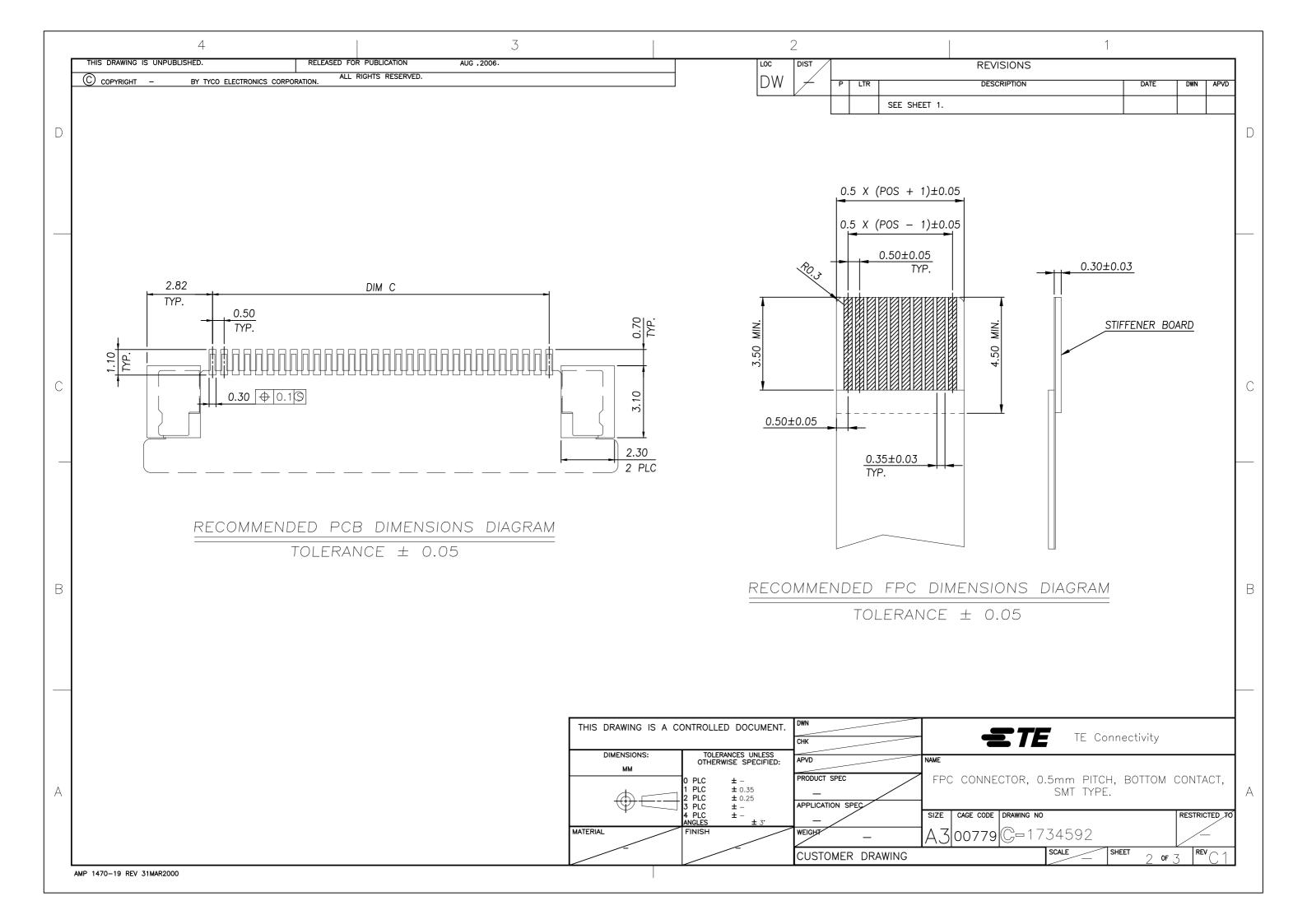
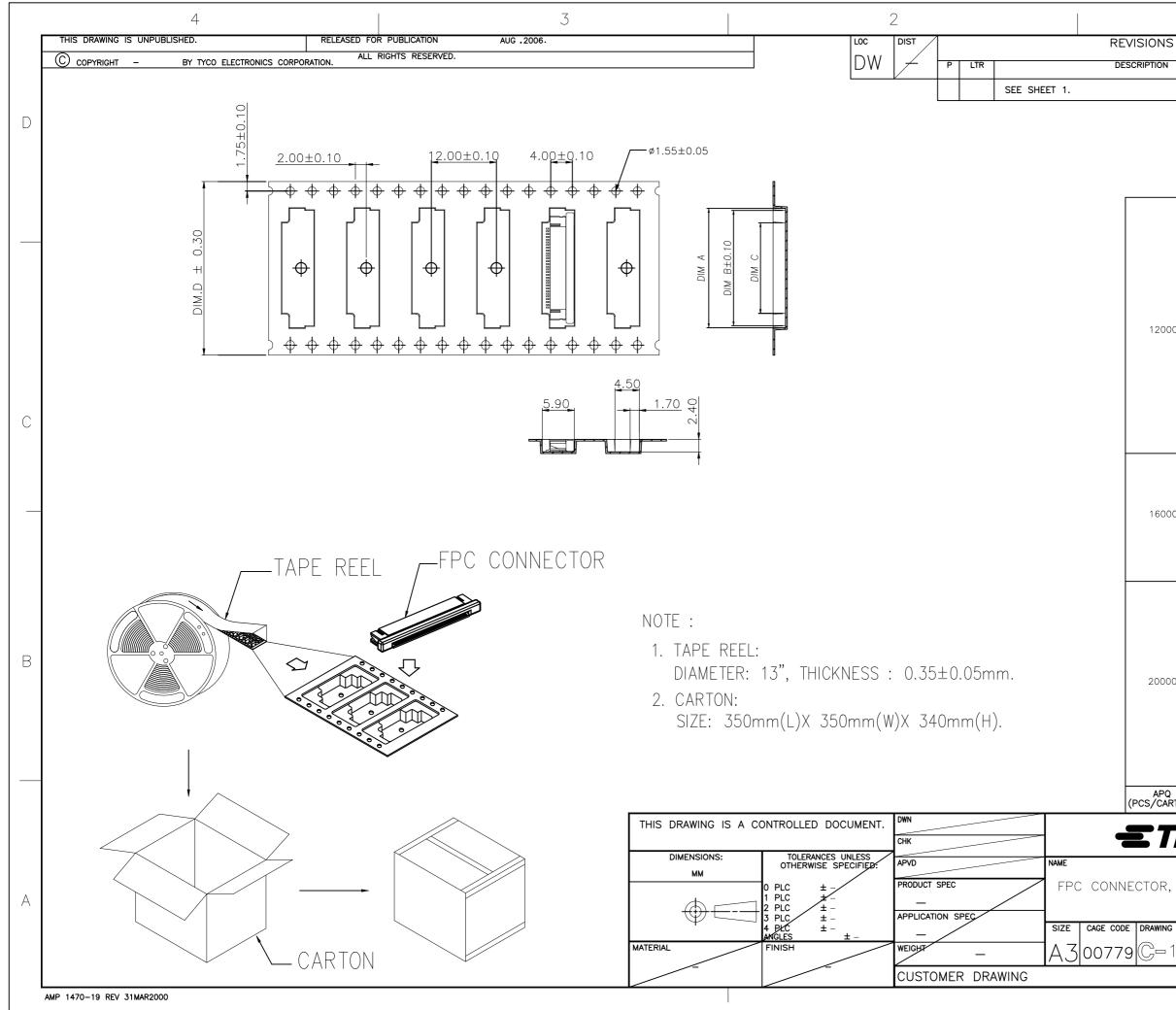


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	13.00	14.10	18.93	27	2-1734	592-7	
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	2.50	3.60	8.43	06	0-1734		
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NECTOR, 0.5mm PITCH, BOTTOM CONTACT,	
SMT TYPE.	A
DE DRAWING NO RESTRICTED 76	
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SCALE SHEET 3 OF 3 REV 1	





15-Oct-2013 Rev B2

FPC Connector, 0.5mm Pitch, Connector SMT Type

1. SCOPE

1.1. CONTENTS

This specification covers the performance, tests and quality requirements for the FPC Connector, 0.5mm Pitch Connector SMT Type.

1.2. QUALIFICATION

When tests are performed on the subject product line, the procedures specified in TE 109 series specifications shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

2. APPLICABLE DOCUMENT

The following TE documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the requirements of this specification and the requirements, this specification shall take precedence.

2.1. TE SPECIFICATIONS

- A. 109-1 : General Requirements for the Test Specification
- B. 109-197 : TE Specification vs EIA and IEC Test Methods
- C. 501-57598 : Test Report

3. **REQUIREMENTS**

3.1. DESIGN AND CONSTRUCTION

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing.

3.2. MATERIALS

- A. Housing : Thermoplastic, UL94V-0
- B. Actuator : Thermoplastic, UL94 V-0
- C. Contact : Copper Alloy, Tin Plating or Gold Plating over Nickel under-plating.
- D. Hold Down : Copper Alloy, Tin Plating over Nickel under-plating.

3.3. RATINGS

- A. Voltage: 250 VAC
- B. Current: 0.5 A Max
- C. Temperature: 40 °C to 85 °C

DR		DATE	APVD	DATE	
Scott Chien		13-MAY-2010	William Kodama	13-MAY-2010	
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All International Rights Reserved.	1	For Regional 0	Customer Service, visit our website at www.tycoelectronics.com	LOC DW	



3.4. PERFOMANCE REQUEIREMENT AND TEST DESCRIPTION

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 1. All tests shall be performed at ambient environmental conditions per AMP Specification 109-1TEST REQUIREMENTS AND PROCEDURES SUMMARY.

3.5. TEST REQUIREMENTS AND PROCEDURES SUMMARY

Test Item		Requirement	Procedure						
1 Examination of Product		Meets requirements of product	Visual inspection.						
1		drawing. No physical damage.	No physical damage						
	ELECTRICAL REQUIREMENT								
		35mΩ. Max.	Subject mated contacts assembled in						
2	Contact Resistance		housing to 20 mV DC Max open circuit at 100mA						
			MIL-STD-1344A Method 3002.1						
	Insulation Resistance	100M Ohm Min.(Initial)	Impressed voltage 500VDC. The insulation						
		50M Ohm Min. (Final)	resistance shall be measured between 10						
3			adjacent 10 opposing contacts per FPC						
			connector.						
			MIL-STD-202F, Method 302						
	1 5 5		250VAC for 1minute						
4	Withstanding	flashover shall occur.	Test between adjacent circuits of unmated						
т	Resistance	Current leakage:0.5mA MAX	connector.						
			MIL-STD-202F Method 301						
		MECHANICAL REQUIR	REMENT						
Test Item Requirement		Requirement	Procedure						
		Roquinomoni							
5	Durability	See Note	Operation Speed: 25.4mm/minute						
5	Durability	See Note	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles						
5		See Note No electrical discontinuity	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along						
5	Durability	See Note No electrical discontinuity	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular						
5 6	Durability	See Note No electrical discontinuity	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along						
	Durability	See Note No electrical discontinuity greater than 1microsecond shall	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular						
	Durability	See Note No electrical discontinuity greater than 1microsecond shall occur.	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally)						
	Durability	See Note No electrical discontinuity greater than 1microsecond shall occur.	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm						
6	Durability Vibration	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note.	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005						
	Durability Vibration	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note. During and after each shock,	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005 (1)Number of drops:3 drops in each of 3						
6	Durability Vibration	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note. During and after each shock, the contacts shell be no	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005 (1)Number of drops:3 drops in each of 3 mutually perpendicular planes						
6	Durability Vibration	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note. During and after each shock, the contacts shell be no discontinuity greater then 1 microsecond.	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005 (1)Number of drops:3 drops in each of 3 mutually perpendicular planes (2)Test board thickness:1.6±0.02mm MIL-STD-202F,Method 213.						
6	Durability Vibration Physical Shock	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note. During and after each shock, the contacts shell be no discontinuity	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005 (1)Number of drops:3 drops in each of 3 mutually perpendicular planes (2)Test board thickness:1.6±0.02mm MIL-STD-202F,Method 213. The test shall be performed 10PCS of each						
6	Durability Vibration Physical Shock Contact Retention	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note. During and after each shock, the contacts shell be no discontinuity greater then 1 microsecond.	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005 (1)Number of drops:3 drops in each of 3 mutually perpendicular planes (2)Test board thickness:1.6±0.02mm MIL-STD-202F,Method 213. The test shall be performed 10PCS of each different row of contacts the crosshead						
6	Durability Vibration Physical Shock Contact Retention	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note. During and after each shock, the contacts shell be no discontinuity greater then 1 microsecond.	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005 (1)Number of drops:3 drops in each of 3 mutually perpendicular planes (2)Test board thickness:1.6±0.02mm MIL-STD-202F,Method 213. The test shall be performed 10PCS of each						
6	Durability Vibration Physical Shock Contact Retention	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note. During and after each shock, the contacts shell be no discontinuity greater then 1 microsecond.	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005 (1)Number of drops:3 drops in each of 3 mutually perpendicular planes (2)Test board thickness:1.6±0.02mm MIL-STD-202F,Method 213. The test shall be performed 10PCS of each different row of contacts the crosshead speed should be less than 20mm per minute. Solder Temp.:235±5°C						
6	Durability Vibration Physical Shock Contact Retention Force	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note. During and after each shock, the contacts shell be no discontinuity greater then 1 microsecond. 250 gf min.	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005 (1)Number of drops:3 drops in each of 3 mutually perpendicular planes (2)Test board thickness:1.6±0.02mm MIL-STD-202F,Method 213. The test shall be performed 10PCS of each different row of contacts the crosshead speed should be less than 20mm per minute.						
6 7 8	Durability Vibration Physical Shock Contact Retention Force	See Note No electrical discontinuity greater than 1microsecond shall occur. See Note. During and after each shock, the contacts shell be no discontinuity greater then 1 microsecond. 250 gf min.	Operation Speed: 25.4mm/minute Durability Cycles:15 Cycles (1)Test duration:3 hours along Each of 3 mutually perpendicular Plans(9hours totally) (2)Test board thickness:1.6±0.02mm MIL-STD-1344A,Method 2005 (1)Number of drops:3 drops in each of 3 mutually perpendicular planes (2)Test board thickness:1.6±0.02mm MIL-STD-202F,Method 213. The test shall be performed 10PCS of each different row of contacts the crosshead speed should be less than 20mm per minute. Solder Temp.:235±5°C						

Figure 1 (cont)



	MECHANICAL REQUIREMENT							
	Test Item	Requirement	Procedure					
10	Humidity	See Note	 (a)test condition:B (b)relative humidity:90±5% (c)temperature:40±3℃ (d)test duration:96 hours Within one hour after exposure MIL-STD-202F,Method 103B. 					
11	Salt Spray	No detrimental corrosion allowd in contact area and base metal exposed.	Subject mated connectors to $35\pm2^{\circ}$ C and $5\pm1^{\circ}$ Salt(NaCl) for 48hrs. After test, rinse the sample with water and recondition the room temperature for 48hrs. MIL-STD-202F,Method 101D.1. condition B.					
12	Thermal Shock	See Note	 (a)temperature range: -55±5℃ to +85±5℃ (b)time at each temperature: 30minutes (c)transfer time:5 minutes max. (d)number of cycles:5 cycles EIA-364-32C. 					
13	Temperature Life	See Note	(a)test temperature:125±2℃ (b)test duration:96 hours EIA-364-17B					
14	Resistance to Reflow Soldering Heat	No physical damage shall occur. (Lead-Free)	Pre-soak condition, 85° C/85% RH for 168 hours. Pre Heat : 150~180°C, 90±30sec. Heat : 230°C Min., 30±10sec. Peak Temp. : 260+0/-5°C, 20~40sec. Duration : 3 cycles TE spec. 109-201, Condition B					

Figure 1 (End)

NOTE : Shall meet visual requirements, show no physical damage, and meet requirement of additional tests as specified in the test sequence in Figures 2



				Те	st Grou	Jp				
Test or Examination	Α	В	С	D	E	F	G	Н	I	
		Test Sequence (a)								
Examination of Product	1,9	1,9	1,9	1,7	1,3	1,6	1,3	1,3	1,5	
Contact Resistance	2,6	2.6	2,6	2,6		2,5			2,4	
Insulation Resistance	3,7	3,7	3,7	3,5						
Dielectric Withstanding Resistance	4,8	4,8	4,8	4						
Durability										
Vibration						3				
Physical Shock						4				
Contact Retention Force					2					
Solder ability							2			
Humidity	5									
Salt Spray		5								
Thermal Shock								2		
Temperature Life			5							
Resistance To Reflow Soldering Heat									3	

3.6. PRODUCT QUALIFICATION AND REQUALIFICATION TEST

Figure 2

NOTE : (a) Numbers indicate sequence in which tests are performed.

(b) Discontinuities shall not take place in this test group, during tests.