

SHIELD FINGER**1. INTRODUCTION****1.1. Purpose**

Testing was performed on the TYCO Shield Finger to determine its conformance to the requirements of TYCO Product Specification 108-57507 Rev O.

1.2. Scope

This report covers the electrical, mechanical, and environmental performance of TYCO Shield Finger

1.3. Conclusion

TYCO Shield Finger meets the electrical, mechanical, and environmental performance requirements of TYCO Product Specification 108-57507 Rev O.

1.4. Product Description

TYCO Shield Finger applied at printed circuit board (PCB). The contacts are made from copper alloy with Tin plating on the foot area, all over nickel underplating.

1.5. Test Samples

The test samples were randomly selected from normal current production lots, and the following part numbers were used for test:

Test Group	Quantity	Description
A, B, C,	5 ea.	TYCO Shield Finger

DR	DATE	APVD	DATE
Quennel Lu	18-Oct-2004	W.J. Ke	18-Oct-2004
FZ00-0244-04			

1.6. PRODUCT QUALIFICATION AND REQUALIFICATION TEST SEQUENCE

Test or Examination	Test Group		
	A	B	C
	Test Sequence		
Examination of Product	1,3	1	1
Contact Resistance		2	
Spring Capacity	2		
Solderability			2

Figure 1

2. TEST RESULT

FOR 2520N1

GP	TEST	SPEC.	DATA			
			Mean	σ	Max.	Min.
A	Spring Capacity	Spring Capacity : 100gf Min. Spring Height : 0.6mm	110gf	1.54	115gf	106gf
	Appearance	No Damage	OK	—	OK	OK
B	Contact Resistance	500m Ω Max.	14	—	15	13
C	Solderability	Coverage 95% min	OK	—	OK	OK
	Appearance	No Damage	OK	—	OK	OK

FOR 404025C-T

GP	TEST	SPEC.	DATA			
			Mean	σ	Max.	Min.
A	Spring Capacity	Spring Capacity : 100gf Min. Spring Height : 0.8mm	224gf	3.40	226gf	221gf
	Appearance	No Damage	OK	—	OK	OK
B	Contact Resistance	500m Ω Max.	15.5	—	19	14
C	Solderability	Coverage 95% min	OK	—	OK	OK
	Appearance	No Damage	OK	—	OK	OK

FOR 3025-Z1-T

GP	TEST	SPEC.	DATA			
			Mean	σ	Max.	Min.
A	Spring Capacity	Spring Capacity : 100gf Min. Spring Height : 0.8mm	150gf	2.80	160gf	148gf
	Appearance	No Damage	OK	—	OK	OK
B	Contact Resistance	500m Ω Max.	15	—	19	13
C	Solderability	Coverage 95% min	OK	—	OK	OK
	Appearance	No Damage	OK	—	OK	OK