	PCB Coupon Analysis Submission Form			
ORG RESEARCH SERVICES, INC.	Client:	Client: Date:		
		Company: P.O. No:		
INSPECTION • ANALYSIS	Address:		Rel No.:	
8811 American Way, Suite 100 Englewood, CO 80112 (855) ORS-LABS			Tel.:	
	E-mail: Expedite Service			
Attn: Component Testing			(Surcharge Will Apply)	
Group E-mail: component@orslabs.com				
Board Designation / ID #: # of Sample		s:	Coupon A/B Coupon Thickness:	
			Type: D Varies	
METHODS OF ANALYSIS				
Thermal Stress		т	hermal Shock	
□ IPC-TM-650 2.6.27 □ IPC-1	ГМ-650 2.6.8	IPC-TM-650 2.6.7.2		
TEST REQUIREMENTS				
Thermal Stress / Convection Re-Flow		Ther	mal Shock	
Peak Re-flow Simulation Temperature		Temp	perature Range:°C to°C	
□ 230°C		The bight	terms autrema alcall he the least of the following:	
245°C		• Mate	temp extreme shall be the least of the following: erial Tg minus 10°C	
		• 210°		
└┘ Other°C		The low temp extreme shall be one of the following: • -40°C		
Ambient Re-flow Simulation Temperature		• -55°	°C (default)	
\square 35°C \square 45°C		• -65°		
Cycle Quantity:		Cycle Quantity Þ Default 100 :		
Failure criteria (%):		Failure criteria (%):		
▶ Default is 5% or N/A for A/B coupons		Default is 5% or N/A for A/B coupons		
Solder Float Test Condition (IPC-TM-650,2.6.8)		Тg	of Laminate:°C	
	-110-030,2.0.0)			
A/B Coupons Only:				
Cross Sectional Analysis Per IPC-TM-650 2.1.1				
Return Shipment Additional Instructions or Restrictions UPS: Red Blue Ground				
Fed Ex: Pr. 1 Std. Econ.				
Other:				
Acct. #:			Request phone consultation upon recei	

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DESCRIPTION OF TEST METHODS

Thermal Stress, Convection Reflow Assembly Simulation		
IPC-TM-650 Number 2.6.27	Test Paragraph	
Conditioning	5.1.1	
Reflow Profile	5.2	
Default Reflow Profile (260°C)	Table 5-1	
Low Temp Reflow Profile (230°C)	Table 5-2	
Reflow Profile (245°C)	Table 5-3	
Evaluation	5.3	
Microsection	5.3.1	
Resistance Change	5.3.2/5.3.2.2	

Thermal Stress, Plated Through Hole Thermodynamic Stress		
IPC-TM-650 Number 2.6.8	Test Paragraph	
Conditioning	5.1	
Thermal Shock	5.4	
Microsection	5.7.1	

Thermal Shock and Continuity		
IPC-TM-650 Number 2.6.7.2	Test Paragraph	
Thermal Shock	3.1	
Temperature Cycling	6.5.1/6.5.1.1	
 The high temp extreme shall be the least of the following: Material Tg minus 10°C Reflow peak temperature minus 25°C 210°C 		
The low temp extreme shall be one of the following: • -40°C • -55°C (default) • -65°C		
Resistance Change	6.7.1	

These test procedures are used exclusively for testing of devices in accordance with the current version of IPC-TM-650

SOME IMPORTANT REMINDERS

- Please provide a valid Purchase Order and, if requested by your company, a Release Number.
- Please be sure to specify "Additional Instructions or Restrictions" that should be followed during sample handling, testing or shipment.
- Unless otherwise requested, test reports will be sent electronically and samples will be returned via UPS Ground.
- Please refer to the ORS terms and conditions of Quotation and Sale at www.orslabs.com/terms-conditions-sale.

- All shipping and handling fees associated with the transportation of samples to and from our testing facility, as well as special courier fees for expediting test reports, are the responsibility of the client.
- On-site visits are encouraged and we welcome your personal involvement during sample analysis.
- Please contact our sales department for pricing information. (315) 736-5480 X2231 and X4219
- For technical information, please contact the Component Testing Group at (855) ORS-LABS X4220.