ONEIDA RESEARCH SERVICES, INC.	Component Analysis Submission Form		
	Client: Date:		
	Company: P.O. No.:		
	Address: Bel No.:		
INSPECTION • ANALYSIS • TESTING 8282 Halsey Road, Building 1	Tel:		
Whitesboro, NY 13492 1 (855) ORS-LABS	E-mail:		
Attn: Component Testing Group E-mail: component@orslabs.com	OBS Quote No : (Surcharge Will Apply)		
Package Type(s):	# of Samples: Will samples be used for Flight production (lot screening)?		
ANALYSIS REQUESTED (Discussion of analysis is recommended)	prior to quotation and submission)		
Destructive Physical Mil-Std			
Analysis (DPA) per Mil Std er Custerer Test Method:	(Consultation required prior to analysis.)		
Specification Client SOW:	Surface/Material Analysis Other		
METHODS OF ANALYSIS			
☐ Internal Vapor Analysis (IVA®, H	HR-IVA®)* Solderability		
Radioisotope Leak Testing (Kr-	85)*		
	Aross Leak SEM Metallization Inspection*		
\Box Combined He/O ₂ Dry Gross and F	Ine Leak (HSHLD®)^ Die Shear*		
	Plasma/Chemical I.C. Deprocessing		
	(SAM) Chemical/Mechanical Decapsulation		
Field Emission SEM (FeSEM)	Cross-Sectional Analysis		
Scanning Electron Microscopy	(SEM) Ion Milling		
Energy Dispersive X-ray Spect	roscopy (EDS) Damp Heat Storage		
Micro Fourier Infrared Spectros	scopy (FT-IR) High/Low Temperature Storage		
\square Real Time X-ray Radiography*	\square PEM Laser/Acid De-Encapsulation		
	Other:		
Dye Impregnation/Penetrant			
*Analysis performed to DI	A approved test methods must be included in the ORS retention log to DLA Land		
Request phone consultation upon	receipt.		
Electronic Report (.pdf file format) Original Hard Copy Report Images Only			
Poturn Shinmont	Additional Instructions or Postrictions		
Return Snipment Additional Instructions or Restrictions UPS: Red Blue Ground			
Fed Ex: Pr. 1 Std. Econ.			
Other:			
Acct. #:			
Form: LOG-9-F02 IVA®, HR-IVA® and Revision 4	HSHLD [®] are registered trademarks of Oneida Research Services, Inc.		

DESCRIPTION OF TEST METHODS

Mil-Std 883 Test	Method	Condition	
Seal	1014	A1, A2, A5, B1, B2, B1/B2 and B3	
External Visual	2009	N/A	
Internal Visual (Monolithic)	2010	A, B	
Radiography	2012	Non-Film (Digital)	Во
Physical Dimensions	2016	N/A	
Internal Visual (Hybrid)	2017	H and K	
SEM	2018	N/A	F
PIND	2020	A, B	
Internal Gas Analysis	1018	N/A	
Bond Strength	2011	Condition D	Ir
Die Shear	2019	N/A	
Internal Visual (Passive)	2032	H and K	V

Mil-Std 750 Test Method Condition nternal Gas Analysis 1018 N/A A, B, G1, G2, H1, Seal 1071 H2, H3 **Die Attach Integrity** 2017 Condition A nd Strength (Destructive Condition D 2037 Bond Pull) Physical dimensions 2066 RE-CAP visual, power 2069 MOSFET'S isual and mechanical 2071 examination ternal Visual transistor 2072 PRE-CAP) inspection sual inspection for die 2073 (semiconductor diode) **DECAP** Internal Visual Design 2075 Verification Radiography 2076 Non-Film (Digital) SEM 2077 N/A PIND 2052 A, B **Destructive Physical Analysis** 2102 for wire bonded devices

These test procedures are used exclusively for testing of devices in accordance with current versions of Mil-Std 883 and Mil-Std 750 per the conditions of "Suitability" status granted by DLA Land and Maritime. No variations are permitted to the procedure nor to the device test conditions. Furthermore, all tests performed are subject to inclusion in ORS' annual retention report submitted to DLA Land and Maritime. All records regarding these tests are subject to audit and inspection by the U.S. Government.

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.
- Devices subjected to Radioisotope Hermetic Seal testing may be retained by ORS until suitable background levels are achieved before devices may be returned to the client.
- 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.
- For technical information, please contact the Component Testing Group at (855) ORS-LABS.

ORS APPROVED DLA LAND AND MARITIME SUITABLE TEST METHODS