Supplier Quality Assessment

Assessment Date	
Organization Name	
Quality Contact Name	
Address	
City, State, Zip	
Supplier Type	Component Manufacturer (Do not complete tabs 4c-Dist1 & 2)
Certifications	

Evaluation Results

Overall for Manufacturer, Contractor, Service Provider		Only for Distributors
Section 1:		
Section 2:		
Section 3:		
Section 4:		
Section 5:		
Section 6:		N/A
Overall:		
Qualification depends on an overall score ≥ 70% and each of the 6 section scores ≥ 50%		

Self-assessment

On-site assessment

N/A = Not Applicable
0 = No Process
1 = Process exists but is ineffective
2 = Satisfactory process, reasonably suitable
3 = Well defined and effective process

Please complete this evaluation within 10 working days of receipt.
Return to: jfreedman@irf.com or Fax: 978-537-4246
A ISO9001/AS9100 cert is acceptable in lieu of the survey.

International Rectifier

Section 1 Quality Management System

1.1 General Requirements

		Rating
A.	Are required processes identified for an effective quality management system and is there a determined sequence and interaction of these processes?	
B.	Are both the operation and control of these processes effective?	
C.	Are these processes measured and analyzed and is continuous improvement implemented?	

1.2 Document Requirements

		Rating
A.	Is there a documented quality manual that has been approved by senior management?	
B.	Are records maintained to demonstrate conformance to specified standards and requirements and the operation of the quality system?	
C.	Where agreed upon contractually are quality records available to the customer?	
D.	Are all quality documents, including external documents, under document control?	
E.	Is there a process to ensure that invalid and/or obsolete documents are promptly removed from all points of use been established?	
F.	Is there timely review, distribution, and implementation of process documentation changes?	
G.	Are records maintained for implemented engineering changes?	
Dist H.	Do copies of the manufacturer's and distributor's certificate accompany each shipment JESD31?	
Dist I.	Are the product and shipment traceability records retained for a minimum of five (5) years after the date of the last shipment from each lot?	

Comments:

Section 2 Management Responsibility

	2.1 Management Commitment		**Rating**
Dist	A.	Does the organization understand the importance of meeting customer, statutory, and regulatory requirements?	
	B.	Does top management ensure that quality objectives are met?	
	2.2 Customer Focus		**Rating**
	A.	Are customer requirements determined and met with an on-going effort to enhance customer satisfaction?	
	2.3 Quality Planning		**Rating**
	A.	Are quality control plans reviewed and updated as appropriate?	
	B.	Are quality control procedures and practices adequate to address the required quality level?	
	2.4 Responsibility, Authority, and Communication		**Rating**
	A.	Has the responsibility, authority and interrelationship of personnel who manage, perform, and verify work affecting quality been defined and documented?	
	B.	Are resource requirements identified and are adequate resources provided including the assignment of trained personnel for management, performance of work, and verification activities?	
Dist	C.	Is there a management representative with authority and responsibility for ensuring the compliance of the estbalished requirements of the predetermined arrangements and customer requirements?	
Dist	D.	Will necessary information and customer required data be communicated in the requested format?	

Comments:

Section 2 Management Responsibility (Continued)

2.5 Management Review **Rating**

A. Has executive management conducted regular reviews concerning quality performance, issues, and requirements?

B. Do the review inputs include the following: audit results, customer feedback, process performance and product conformity, status of corrective and preventive actions, follow-up actions from previous reviews, changes to the quality management system, and improvement recommendations?

C. Do the management review outputs include decisions and actions that affect improvement of the quality management system, processes, product, and resource needs?

Comments:

Section 3 Resource Management

3.1 Provision of Resources

Rating

A. Has the organization determined and provided the resources needed to: implement and maintain the quality management system, continually improve its effectiveness, and enhance customer satisfaction by meeting customer requirements?

3.2 Human Resources

Rating

Dist

A. Have the training needs for all personnel performing activities affecting quality been

B. Do qualifications for jobs affecting quality state identification of appropriate education, training needs, and experience?

C. Are training records maintained?

D. Is training effectiveness periodically evaluated?

3.3 Infrastructure

Rating

Dist

A. Has the organization provided and maintained the appropriate work spaces, process equipment, buildings, and supporting services necessary to achieve product

3.4 Work Environment

Rating

A. Has the work environment needed to achieve product requirements been maintained?

Comments:

Section 4 Product Realization

4.1 Planning of Product Realization

Rating

A. Has the organization developed the product realization process including the verification, validation, monitoring, inspection and test activities specific to the product and the criteria for product acceptance?

B. Does the supplier maintain records needed to provide evidence that the realization processes and resulting product meets requirements?

4.2 Customer Related Processes

Rating

Dist

A. Does the organization determine customer requirements for delivery and post delivery activities?

B. Are statutory, regulatory, and other requirements related to the product reviewed prior to the organization's commitment to supply a product to the customer?

C. Does the organization ensure that when product requirements are changed that all relevant documents are amended and that all pertinent personnel are made aware of the changed requirements?

D. Has the organization implemented an effective process for communicating product information, contracts (including amendments), and feedback (including customer complaints) to customers?

4.3 Design and Development Planning

Rating

A. Has the organization established the stages of product development including: a multidisciplinary approach used for effective communication, review of key product characteristics, Failure Mode and Effect Analysis (FMEA), quality plans, product acceptance criteria, and the product specifications stating safety and usage information?

B. Does the organization document the input data (product and procedure) for design and development and ensure that the output data is in accordance with the input?

Comments:

Section 4 Product Realization (Continued)

		Rating
	4.3 Design and Development Planning (continued)	
	C. Have formal documented reviews been conducted per the design plan and do the reviews include representatives concerned with the design and development stages being reviewed?	
	D. Are record of the reviews including necessary actions maintained?	
	E. Are design and development changes verified and validated prior to implementation?	
	4.4 Purchasing	**Rating**
Dist	A. Does the organization guarantee that products are purchased in accordance with expressed requirements, specifications, contracts, and control methods?	
	B. Has the organization established and implemented inspection or other activities necessary for ensuring that purchased product meets specified purchase	
Dist	C. Do the purchasing documents contain data that clearly describe the product and services being ordered?	
	4.5 Product and Service Provision	**Rating**
	A. Have adequate work instructions and processes been developed and do employees perform operations / inspections according to documented instructions?	
	B. Has the organization established a defined review and approval of the processes / equipment?	
Dist	C. Where appropriate is, product identification and traceability maintained at all stages?	

Comments:

Section 4 Product Realization (Continued)

4.5 Product and Service Provision (continued) **Rating**

	D. When appropriate, are control plans revised for product and process changes or when processes are found to be unstable or non-capable?	
	E. Do process FMEA's consider all key characteristics?	
	F. Are in-process inspections performed and if so, is product held until the required inspections and tests are completed?	
	G. Does the organization utilize defect prevention methods?	
	H. When required by the nature of the product, is the product inventory periodically checked to detect deterioration?	
	I. Does the organization identify the status of the product with respect to monitoring and	
	J. Does the organization assure that no product is shipped until all activities specified in the documented procedures have been satisfactorily completed?	
Dist	K. Are the material handling methods and storage areas appropriate to prevent product damage and deterioration?	
Dist	L. Is there an inventory management system to optimize inventory turns and stock rotation?	
Dist	M. Is there a system in place to monitor delivery performance and take corrective actions when necessary?	
Dist	N. Is there an inventory management system to optimize inventory turns and stock rotation?	
Dist	O. Is there a system in place to monitor delivery performance and take corrective actions when necessary?	

Comments

Section 4 Product Realization (Continued) ONLY FOR DISTRIBUTORS

4.5 Product and Service Provision (continued)

4.5.1 Counterfeit Part Mitigation and Certificate of Conformance

			Rating
Dist	A.	Does the supplier have a documented process in place to limit risk associated with the receipt and passage of counterfeit parts?	
Dist	B.	Has the Distributor implemented and maintained a traceability system for military products in compliance with the requirements of JESD31?	
Dist	C.	Does the traceability exist from the time of receipt through delivery?	
Dist	D.	Do copies of the manufacturer's and distributor's certificate accompany each shipment JESD31?	
Dist	E.	Are copies of the certificates maintained with the lot records until the last shipment is made from the lot?	
Dist	F.	Do the certificates contain the minimum required information?	

4.5.2 Marking, Packaging and Labeling

			Rating
Dist	A.	Has the Distributor established a system to handle and repackage product in compliance with the manufacturer, customer and applicable documents.	
Dist	B.	Are the Distributor's packaging containers capable of being resealed and reshipped?	
Dist	C.	Do the labels generated by the Distributors conform to the applicable specifications?	
Dist	D.	Do the marking procedures ensure that the manufacturer's marking is not obliterated or altered?	
Dist	E.	Does the Distributor's marking include their name, trademark or logo?	
Dist	F.	When adhesive labels are used, can the manufacturer's marking be read when the labels are removed?	

4.5.3 Value Added Processes

			Rating
Dist	A.	Are device programming and electrical test master units and programs controlled?	
Dist	B.	Are the devices that have had extra testing or screening kept separate from and not sold as virgin product?	
Dist	C.	Does the management system provide for segregation by part number and grade?	

Section 4 Product Realization (Continued) ONLY FOR DISTRIBUTORS

4.5 Product and Service Provision (continued)

4.5.4 Inventory Control

			Rating
Dist	A.	Does the inventory system preclude the commingling or shipment of nonconforming parts?	
Dist	B.	Does the Distributor deliver parts to the customer based on first-in, first-out (FIFO) unless specifically defined within a customer order?	
Dist	C.	Is the inventory maintained in a storage area with limited access?	
Dist	H.	Do copies of the manufacturer's and Distributor's certificate accompany each shipment JESD31?	

4.5.5 Distributor Returns to Manufacturers

			Rating
Dist	A.	Are the product types segregated?	
Dist	B.	Is a copy of the original manufacturer's C of C attached to each lot?	
Dist	C.	Are the products unaltered and free of mechanical damage?	
Dist	D.	Are the quality returns clearly identified and shipped separately from the other kinds of returns?	
Dist	E.	Are the stock rotation material clearly identified?	

4.5.6 Customer Returns

			Rating
Dist	A.	Are all returns from customers inspected for evidence of mishandling and improper packaging?	
Dist	B.	Are mishandled/improperly packaged customer returns dispositioned per the Distributor's documented procedures?	
Dist	C.	Does the distributor maintain a documented system to assure parts returned to the distributor were purchased directly from the distributor and not through another source?	

Comments:

Section 4 Product Realization (Continued)

4.6 Control of Monitoring and Measuring Devices **Rating**

A. Has inspection, measuring, and test equipment (including software when appropriate) been provided that is capable of the required accuracy and precision? ☐

B. Is measurement system analysis conducted and recorded (Gage R & R) for all gages, measurement, and test equipment? ☐

C. Is each piece of inspection, measurement, and test equipment identified with a unique designation and is each piece calibrated traceable to NIST at prescribed intervals? ☐

D. Are appropriate actions, including customer notification, taken when inspection, measurement, or test equipment is found to be out of calibration? ☐

E. Do records exist for calibrated equipment and are these pieces of equipment properly handled, preserved, and stored to maintain calibration and fitness for use? ☐

Comments:

Section 5 Measurement, Analysis, and Improvement

5.1 General — **Rating**

A. Are statistical techniques utilized to control and verify the capability of process parameters and product characteristics?

B. Are these statistical techniques used to continually improve the effectiveness of the quality management system?

5.2 Monitoring and Measurement — **Rating**

A. Does the organization monitor information relating to customer perception as to whether the organization has met customer requirements?

B. Are the methods for obtaining and using this information determined?

C. Does the organization conduct internal audits of the quality management system at planned intervals to ensure that processes comply to the quality management system requirements established by the organization as well as to the international standard?

D. Does the responsible management ensure that actions are taken immediately to eliminate detected nonconformities and their causes?

E. Do follow-up activities include the verification of the actions taken and the reporting of the verification results?

F. Does the organization apply suitable methods for monitoring and measurement of the quality management system processes?

G. In the event of a process non-conformity, does the organization take appropriate action to correct the non-conforming process and evaluate whether the process non-conformity has created defective product?

H. Does the organization monitor and measure product characteristics to verify that product requirements have been met?

Comments:

Section 5 Measurement, analysis, and improvement (Continued)

5.2 Monitoring and Measurement (continued)

		Rating
	I. Are measurements carried out at appropriate stages in the product realization process in accordance with planned arrangements?	
	J. When the organization uses sampling inspection as a means of product acceptance, is the plan statistically valid and appropriate for use?	
	K. When required, is the sampling inspection plan submitted for customer approval?	
	L. Is evidence of conformity with the acceptance criteria maintained and do these records indicate the person authorizing release of product?	

5.3 Control of Non-conforming Product

		Rating
D	A. Does the organization ensure that non-conforming product is identified and controlled to prevent its unintended use or delivery?	
D	B. Does the organization's documented process define the responsibility and timing of review and authority for the disposition of non-conforming product?	
	C. When non-conforming product is corrected, is it subject to re-verification to demonstrate conformity to the requirements?	

5.4 Analysis of Data

		Rating
	A. Does the organization determine, collect, and analyze data to demonstrate the suitability and effectiveness of the quality management system, and to evaluate where continuous improvement can be implemented?	
	B. Does the analysis of the data include: customer satisfaction, conformity to product requirements, characteristics and trends of processes and products?	

Comments:

Section 5 Measurement, analysis, and improvement (Continued)

5.4 Analysis of Data (continued) **Rating**

C. Does the organization use problem solving techniques to identify, measure, and resolve external and internal issues? ☐

D. Are the appropriate measurements in place for quality improvements and cycle time reduction activities? ☐

5.5 Improvement **Rating**

A. Does the organization have processes in place to reduce errors, defects, and waste in all areas of operation? ☐

B. Are actions taken to eliminate the causes of non-conformities in order to prevent re-occurrence? ☐

C. Are the corrective actions appropriate to the effects of the non-conformities encountered? ☐

D. Does the organization determine action to eliminate the causes of potential non-conformities in order to prevent their occurrence? ☐

E. After improvement to a process occurs, are the appropriate controls put into place and are these controls monitored on an on-going basis? ☐

Comments:

Section 6 Others

6.1 Finance

	Rating
A. Has the company's cash flow been positive for all of the quarters during the last year?	
B. Did the company record a profit during the last 3 years?	
C. Does the company have product cost reduction programs in place?	
D. Do the company have an established program to control purchased material costs?	
E. Does the company agree to set up consignment stock?	

6.2 Manufacturing

	Rating
A. Is the company shop capacity utilization more than 50% but less than 75%?	
B. Does the company have enough capacity to meet additional demand given current customer orders and projections? When formulating answer, be sure to consider number of shifts available, potential process "bottlenecks", indirect support (including engineering availablity, etc.)	

Comments:

IR International Rectifier

Risk Assessment

Supplier: _____

☐ The supplier is conforming and has a QMS capable of supporting IR HiRel's requirements. Approval can be granted. Approval from the appropriate IR HiRel representative

☐ The supplier is not conforming, but has a QMS capable of supporting IR HiRel product realization requirements for the type of commodity being provided. Approval can be granted. Risk(s) obeserved, with definition and accepted risk(s) shall be defined. Approval from the appropriate IR HiRel representative

☐ The supplier is conforming and has a QMS capable of supporting IR HiRel requirements with minor corrective actions and/or major corrective actions not adversely affecting product realization. Conditional approval, or approval with appropriate risk mitigation actions, can be granted. Approval from the appropriate IR HiRel representative is required.

☐ The supplier is mostly conforming and has a QMS potentially capable of supporting IR HiRel requirements but has deficiencies that could adversely affect product realization. Approval will be granted only upon satisfactory corrective action or with documented implementation of appropriate risk mitigation actions. Approval from the appropriate IR HiRel representative is

☐ The supplier is not recommended. The supplier does not have a QMS capable of supporting IR HIRel's requirements. Significant risk analysis and mitigation actions must be developed, implemented, and documented. Approval from the appropriate IR HiRel representative, Director of Quality and Director of Logistics and Materials are required.

Risk(s) observed:	**Definition of risk (e.g. likelihood, consequences, risk acceptance)**	**Actions to Mitigate Risk or Risk Acceted:**

(Use additional pages if necessary)

IR Technical Review
Product or Process
Engineering

IR Supplier Development
(Signature & Date)

IR Purchasing
(Signature & Date)