



DEFENSE LOGISTICS AGENCY  
LAND AND MARITIME  
POST OFFICE BOX 3990  
COLUMBUS, OH 43218-3990

February 6, 2013

Ms. Cora Gustason  
International Rectifier Corporation  
205 Crawford Street  
Leominster, MA 01453

Dear Ms. Gustason:

Re: Modification of QML Listing, Hybrid Microcircuits, MIL-PRF-38534, FSC 5962,  
VQH-13-025785

We are writing to notify you of the modification of your QML Listing for MIL-PRF-38534. The changes are to remove projection weld and TO packages. This action is a result of your retention report dated July 2011 – June 2012 stating you are no longer using this process and do not foresee using it in the next twelve months.

Your Qualified Manufacturers List (QML) listing will appear as in Enclosure 1 and is subject to the conditions printed in Enclosure 2.

To maintain this listing, you are required to provide a retention report every twelve months.

QML manufacturers shall notify the qualifying activity immediately after learning of a potential issuance of a GIDEP alert, problem advisory or major quality/reliability problem affecting QML products. Failure to provide prior notification may be grounds for removal from QML 38534.

Because we are held responsible for the accuracy and currency of this QML, please let us know if your company discontinues production using these materials or processes.

If you have any questions, please contact Jackie Cunningham at (614) 692-0584.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE  
Chief  
Sourcing and Qualifications Division

Enclosures

**International Rectifier Aerospace & Defense (MA) (CAGE Code: 69210)**

205 Crawford Street, Leominster, MA 01453-2353, US

**Company Contact:** Ms. Cora Gustason, Phone: 978-466-5532, Fax: 978-537-4246, E-mail: cgustas1@irf.com

**DSCC Contact:** Ms. Jacqueline Cunningham, Phone: 614-692-0584, Fax: 614-692-6942, E-mail: vqh.jc@dla.mil

**Quality Management (QM) Program:** Non-TRB

**Periodic Inspection System:** Options 1 and 2

**Technologies:** Voltage Regulator, Power

**Qualification Letters:** EQ(EQC-91-408), EQ(EQC-91-807), EQ(EQC-91-838), EQ(EQM-94-0029), ELS(ELSH-94-0388), VQ(VQH-98-0014), VQ(VQH-01-0034), VQ(VQH-03-003838), VQ(VQH-08-016688), VQ(VQH-10-019960), VQ(VQH-10-020180), VQ(VQH-11-022643), VQ(VQH-12-024352)

**Class Level Information: See Note 6/**

Class K, Class H, Class E

**Substrate Fabrication Information: See Note 1/**

**Substrate Fabrication Flows:** D050015G

**Substrate Fabrication:** Thick Film on Alumina, 2 Conductor Level(s), Resistors; Thick Film on Beryllia, 3 Conductor Level(s), Resistors

**Assembly Information: See Note 1/**

**Assembly Flows:** D050015G

**Substrate Attach:** Solder, Nonconductive Epoxy

**Element Attach:** Conductive Epoxy, Nonconductive Epoxy, Solder

**Add-on Elements:** Unpackaged Die, Chip Capacitors, Tabs, Chip Resistors, Encapsulated Hybrid

**Wire Bonding:** Gold, Aluminum

**Package Information: See Notes 1/ 2/ 3/**

**Package Information:** Metal Package, Peripheral Leads, Seam Weld, 2.47 Inch Seal Perimeter, 8 Leads, Solder Lead Finish; Metal Package, Peripheral Leads, Seam Weld, 8.80 Inch Seal Perimeter, 43 Leads, Gold Lead Finish; Metal Package, Axial Leads, Seam Weld, 4.08 Inch Seal Perimeter, 24 Leads, Gold Lead Finish, Getter Qualified

Notes:

1/ The QML listing can be expanded provided appropriate qualification testing is performed and passed. Therefore the manufacturer may accept an order for compliant product not covered by his QML listing, but shall not ship the compliant product until the testing has been successfully completed.

2/ Package seal perimeter is listed by largest perimeter successfully tested in inches.

3/ Package lead counts are listed by maximum number of leads covered by qualification.

4/ Caution. Do not use this number for item acquisition. Item acquired to this number may not satisfy the performance requirements of the listed SMD.

5/ Inactive for new design, no longer available from manufacturer.

6/ Class E devices are devices, which meet all of the requirements of one of the other classes (K, H, or G), with some exceptions taken. Therefore any manufacturer qualified to G, H or K is eligible to produce and mark product as compliant to class E.

## CONDITIONS REGARDING QUALIFICATION APPROVAL

1. A listing on the Qualified Manufacturers List (QML) does not guarantee acceptance of the product(s) in any future purchase.
2. QML listing does not constitute a waiver of any requirements of the specification or of the provisions of any contract.
3. Advertising of qualification information is permitted. Permission to use such information for advertising or publicity purposes is granted provided that such publicity or advertising does not state or imply that the product(s) is the only product of that type qualified or that the Department of Defense in any way recommends or endorses the manufacturer's product.
4. The listing applies only to products produced in the plant(s) specified in this letter of notification of qualification and applies to future amendments or revisions of the specification, unless otherwise notified.
5. The qualifying activity must be advised in advance of any change to the materials and manufacturing construction techniques. Failure to notify the qualifying activity of any change to the materials and manufacturing construction techniques is cause for removal from the QML.
6. Continued qualification listing is dependent upon the manufacturer's compliance with the retention of qualification, verification of qualification, to which his products are qualified.