

# **PROCUREMENT SPECIFICATION FOR QML V PROCESSED INTEGRATED CIRCUITS**

## **A. PART DETAILS**

As per **Table-1**

## **B. DEVICE QUALITY**

1. The devices shall be Processed to QML 'V' of MIL-PRF-38535.
2. All parts shall undergo Manufacturer's Pre-cap visual inspection as per condition A of Test Method 2010 of MIL-STD-883.
3. All parts shall be Serialized and Screened as per QML 'V' of MIL-PRF-38535.
4. All parts shall undergo Group A tests as per QML 'V' of MIL-PRF-38535.
5. All parts shall meet the Electrical, Mechanical and Environmental specifications as per the Manufacturer's Space grade datasheet.
6. One sample drawn from the deliverable quantities per lot date code shall undergo Destructive Physical Analysis (DPA).

## **C. DATA PACK REQUIREMENTS**

The following Data shall accompany the devices in soft copy (compact disk).

1. Screening results by attributes and variables
2. SEM report if applicable
3. Group A test report
4. Generic Group B, C and D test reports
5. Generic radiation report if applicable
6. Certificate of Conformance issued by the manufacturer
7. DPA report if ordered

## **D. OTHER REQUIREMENTS**

1. The devices shall be drawn from lots manufactured within 2 years of the date of shipment preferably.
2. Devices shall be packed in ESD safe packs.
3. The device body and/or leads shall not have discoloration.
4. Only Vendors/Suppliers Authorised to source above Space grade components from the Manufacturer will be considered. Necessary Certificate from the manufacturer shall be enclosed along with the offer.

## **E. RESPONSIBILITIES OF THE SUPPLIER**

The supplier shall undertake following additional tasks to ensure that the devices meet the necessary quality requirements:

1. Perform Incoming inspection & data package review before shipment.
2. The manufacturer shall report to IISU all NCR/DCN (Document Change Notice) during Procurement/Testing.
3. The device leads/Body shall be free from any type of oxidation /corrosion/brown spots etc.
4. The parts shall be accepted after through incoming inspection and clearance.
5. Any device, if found, not as per the required specification, ie( manufacturing defect/material defect/unsuitable for the operation) shall be replaced free of cost.

**Please provide point-by-point compliance to specification along with your quote.**

**Table-1**

SI No	Part number	Part description	Package	RHA specifications
1	AD585-713M	Radiation Tested, High Speed, Precision Sample-and-Hold Amplifier	FP-14	TID of 10krads (Si) minimum