

# **PROCUREMENT SPECIFICATION FOR LINEAR INTEGRATED CIRCUITS**

## **A. PART DETAILS**

As per Table-1

## **B. DEVICE QUALITY**

1. The devices shall be Qualified 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 applicable Standard Microcircuit Drawing (SMD).
6. The devices shall meet the RHA specifications as specified in Table-1.
7. 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
3. Group A test report
4. Generic Group B, C and D test reports
5. Generic Radiation report
6. Certificate of Conformance issued by the manufacturer
7. DPA if ordered

## **D. OTHER REQUIREMENTS**

1. The devices shall be marked with MIL-PRF-38535 SMD part number.
2. Devices shall be drawn preferably from lots manufactured within 2 years of the date of shipment preferably.
3. Devices shall be packed in ESD safe packs.
4. The device body and/or leads shall not have discoloration.
5. 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.
6. The manufacturer shall report to IISU all NCR/DCN (Document Change Notice) during Procurement/Testing.
7. The device leads/Body shall be free from any type of oxidation /corrosion/brown spots etc.
8. The parts shall be accepted after through incoming inspection and clearance.
9. 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 the quote.**

**Table-1**

<b>Sl.No.</b>	<b>Part number</b>	<b>Part description</b>	<b>Package</b>	<b>RHA specification</b>
<b>1</b>	OP07AJ/QMLR (5962R9863901VGA)	Ultra-Low Offset Voltage, Operational Amplifier	Can-8	TID of 100krads (Si) minimum
<b>2</b>	AD574AUD/QMLR (5962R8512701VXA)	12-bit analog to digital converters	DIP-28	
<b>3</b>	AD584T/QMLR (5962R3812802VGA)	Programmable voltage reference	Can-8	