

PROCUREMENT SPECIFICATION FOR MIL-STD-1553 BUS +3.3V TRANSCEIVER

A. DEVICE DETAILS

Sl. No.	Part number	Package	Part description
01.	UT63M143 (5962R0724201VZC)	CFP24	Dual channel, bus transceiver, TTL input/output, MIL-STD-1553 A/B compatible.

B. DEVICE QUALITY

1. The devices shall be qualified to QML'V' of MIL-PRF-38535.
2. All the devices shall undergo Precap visual examination on 100% as per of MIL-PRF-38535 QML 'V'.
3. All parts shall be serialized & screened as per QML 'V' of MIL-PRF-38535.
4. The devices shall undergo Group A tests as per MIL-PRF-38535.
5. The devices shall meet the following Radiation Hardness specifications,
 - a. Total Ionising Dose (TID) of minimum 100krad (Si).
 - b. Single Event Latch-up immunity (SEL) to $LET_{TH} > 80 \text{MeV-cm}^2/\text{mg}$.
6. One sample drawn from the deliverable quantities of shall undergo Destructive Physical Analysis (DPA).

C. DATAPACK REQUIREMENTS

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

1. Manufacturer's Precap Visual Inspection report.
2. Screening results by attributes and variable data includes Read & Record at Electrical Test point ET Post BI 25⁰C.
3. QML V Data Pack including following,
 - a. 100% lot screening summary with in-line Group A.
 - b. QCI data
 - c. Assembly lot X-ray report.
 - d. Certificate of Conformance
 - e. DPA report if ordered

D. OTHER REQUIREMENTS

1. Devices shall be marked with DSCC 5962 SMD number.
2. Devices shall be drawn preferably from single lot manufactured within 2 years of the date of shipment preferably.
3. Devices shall be packed in ESD safe packs.
4. The device leads shall be gold coated and 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 device leads/Body shall be free from any type of oxidation /corrosion/brown spots etc.
7. The parts shall be accepted after through incoming inspection and clearance.
8. 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.

E. RESPONSIBILITIES OF THE SUPPLIER

The supplier shall undertake following additional tasks to ensure that the devices meet the

necessary quality requirements:

1. Perform 100% incoming inspection & data package review before shipment.
2. Report to IISU all NCR/DCR during procurement/testing.

Please provide the point-by-point compliance to specification in your quote.