

## **PROCUREMENT SPECIFICATION FOR OPTOCOUPLER**

### **A. PART DETAILS**

1. The device Part Number shall be HCPL-675K (5962-9800201KFC).
2. The devices shall be in 16 pin Flat package.

### **B. DEVICE QUALITY**

1. The devices shall be Qualified to Class K of MIL-PRF-38534.
2. All parts shall undergo Manufacturer's Pre-cap Visual Inspection as per test method 2017 of MIL-STD-883.
3. All parts shall be Serialized & Screened to Class K of MIL-PRF-38534.
4. The devices shall undergo Group 'A' Tests as per Class K of MIL-PRF-38534.
5. All parts shall meet the electrical, mechanical and environmental specifications as per the applicable Standard Microcircuit Drawing (SMD).
6. Quote separately for Lot specific Radiation (TID, DD and SEE) Tests.
7. Quote separately for DPA on 3 samples drawn from the deliverable quantities.

### **C. DATA PACK REQUIREMENTS**

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

1. Screening results by Attributes and Variables
2. Pre-cap Visual Inspection report
3. Group A Test Report.
4. Generic Group B, and Group C Test Reports.
5. Radiation (TID, DD and SEE) Test report, if ordered.
6. DPA test report if ordered.
7. Certificate of Conformance issued by the manufacturer.

### **D. OTHER REQUIREMENTS**

1. The devices shall be marked with the MIL-PRF-38534 SMD part number.
2. The devices shall be supplied preferably from the lots with same date code. The 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.

### **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. 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.**

**Part Details**

<b>SI No</b>	<b>Part number</b>	<b>Part description</b>	<b>Package</b>	<b>RHA Spec.</b>
1	HCPL-675K (5962-9800201KFC)	Optical coupler, 4 channel	FP-16	TID of 10krads (Si) minimum