



## **MSSL Dummy Masses for the MTM/TTM**

### **1. Introduction**

Dummy masses were prepared for the MHC, the ROE and the FPA. These were fitted at RAL as a part of the assembly of the MTM/TTM prior to its environmental test programme.

### **2. MHC**

An aluminium box fabricated to the flight drawings was used. The four representative printed circuit boards inside the box were fitted with dummy masses to simulate the components.

The box drawing number is A1-5275-302 sheet 1, issue 3 and sheet 2, issue 1. Note; this drawing represents the whole flight assembly. The metal work for the box was made exactly to the drawing, but the printed circuit boards were as described above.

The mass of the assembly was measured as 2.8 kg.

### **3. ROE**

An aluminium box fabricated to the flight drawings was used. The three representative printed circuit boards inside the box were fitted with dummy masses to simulate the components. Thermal and particle radiation shields were also fitted.

The box drawing number is A1-5275-301 sheet 1, issue 2 and sheet 2, issue 2.

The mass of the assembly was measured as 3.056 kg.

### **4. FPA**

An assembly fully representative of the flight model was provided.

The drawing number is A1-5275-304 issue 2

The mass of the assembly was measured as 0.693 kg.