

MANUFACTURING REWORK CAPABILITY

Maritime Services provides manufacturing and through-life support services of highly complex electronic integrated systems, sub-systems and modules for high integrity applications.



PEC Modification and repair cell.

The facility maintains all the equipment necessary to provide concise modifications and repair to a variety of board types.

All skilled technicians working on PEC's modifications, maintain workmanship standards to IPC – 7711 / 7721.

Process Equipment

- IR550 – IR sensor; solder rework system
- ERSASCOPE – Gives a visual image of hidden joints
- MLR22 – A drilling/milling machine; consisting of X, Y, and Z axis control
- X410 – IR sensor; solder rework system (including Pb free soldering capability)
- AVD400 – Twin sump immersion solvent cleaning tank
- Metcal solder stations
- Pace solder stations
- ERSA solder stations
- Mantis visual aids.

Materials

- STD FR4 PCB material
- High Tg FR4 PCB material
- ARAMID PCB material
- POLYIMIDE PCB material
- Pb free range of PCB material
- COPPER INVAR PCB material
- PTFE PCB material
- CERAMIC loaded PTFE PCB material
- ROGERS range of high frequency PCB material
- FLEXI circuits
- FLEXI RIGID circuits
- Mixed bonded materials from the above list i.e. FR4/ROGERS 4880
- Bonded heat planes onto PCB material.

Typical Repair capability;

- Pad/track repair (outer)
 - Track repair (inner layer)
 - PCB material repair from the above list of material (not ceramic or PTFE)
 - Removing/adding all through-hole components, including connectors
 - Removing/adding all surface mounted components, including BGA's
 - Re-balling BGA's.
- ### Typical PEC size capability,
- From 10mm x 10mm
 - Up to 538mm x 250mm, (current largest PCB)
 - Up to 22 layer count (average layer count at Cowes is currently 14).

BAE Systems Maritime Services

Newport Road, Cowes
Isle of Wight, PO31 8PF, United Kingdom
Tel: +44 (0) 1983 294141
Fax: +44 (0) 1983 202326
email maritime.services@baesystems.com
www.baesystems.com/maritimeservices

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