

## Change Note

<b>Distribution</b>			
<b>Prepared by</b>	T R Davies		
<b>Drawing number</b>	C7491-CD-001	<b>Old version</b>	<b>New version</b> a
<b>CR number</b>	<i>(Reference of associated Change Request, if any)</i>		
<b>Category</b>	Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/>	<i>(Category is major if form, fit or function is affected)</i>	
<b>PM approval</b>	<i>(If using DocMan, you may sign electronically)</i>		

### Description of changes

This CN describes in outline the changes to be made to a Monaco H1b issue g transceiver board to make the Monaco DoD transceiver.

### 1 TR Switch and harmonic filter

Use the Hittite HMC8207 switch and the Mini-Circuits LFCN-2250 low-pass filter.

### 2 LNA

Use Agilent MGA-62563 with a shunt pin-diode switch from Talladega. Include a low-pass pi-section to give a total quarter-wave line from the shunt switch to the TR switch.

### 3 Tx driver amplifier

Replace the RF2367 with an Agilent MGA-62563. The bias resistor should be 1 kOhm for an operating current of 30 mA. The temperature-compensated attenuator ahead of the driver amplifier needs to be changed to maintain headroom in the IF amplifier Q8.

### 4 Main LO output amplifier

Replace the RF2367 with an Agilent MGA-62563.

### 5 RF decoupling of signals from latch board

Change CC437, C439 and C469 from 10 pF to 22 pF. These will be more effective at keeping digital interference away from the latch board, and hence from the antenna.

### 6 Version resistors

Change R368 to 2.2 kOhms

Change R415 to 4.3 kOhms

Change R174 to 3.9 kOhms

## **7 Track from charger connector**

Increase the width of the 0V connection to the charger connector from 0.2 mm to 0.5 mm. This gives margin against over-etching of the pcb.

## **8 Microphone footprint**

Change the microphone footprint to the one used on Laguna.

Outer diameter of ring 4.5 mm

Inner diameter of ring 2.8 mm

Centre pad diameter 1.3 mm.

