

6<sup>th</sup> January 2006

RFI Global Ltd  
Ewhurst Park  
Ramsdell  
Basingstoke  
Hampshire  
RG26 5RQ

Dear Sir/Madam

FCC Submission PW9DA5823 – Changes and Difference.


The Changes that have been implemented on the DA5823-031/032 for this permissive change are:

- RF Mixer redesigned due to obsolescence of TR3
- IC1, IC2 and IC4 op-amps replaced with a single quad op-amp
- C38 and C39 removed from the micro's oscillator
- C44 and C45 decoupling capacitors removed for faster communications
- Other decoupling capacitors added and removed due to circuit changes
- IC3 microcontroller changed from ST72C16 to ST7FLITE29
- Low voltage detect pin from regulator connected to micro to disable the sensor at low voltage
- IC4 EEPROM and associated components removed, EEPROM internal to new micro controller
- IC2 digipot and associated components removed. Sensitivity adjust now handled internally in microcontroller by adjusting thresholds instead of gain.

Difference between DA5823-031 and DA5823-032

- DA5823-031 has blue connector, DA5823-032 has green connector.
- Different addresses for gain setting.
- The Duty cycle rate is slightly different to prevent injection locking of 2 sensors in a car.

Yours Sincerely



Samantha Ridler BEng MIEE  
Compliance Engineer

