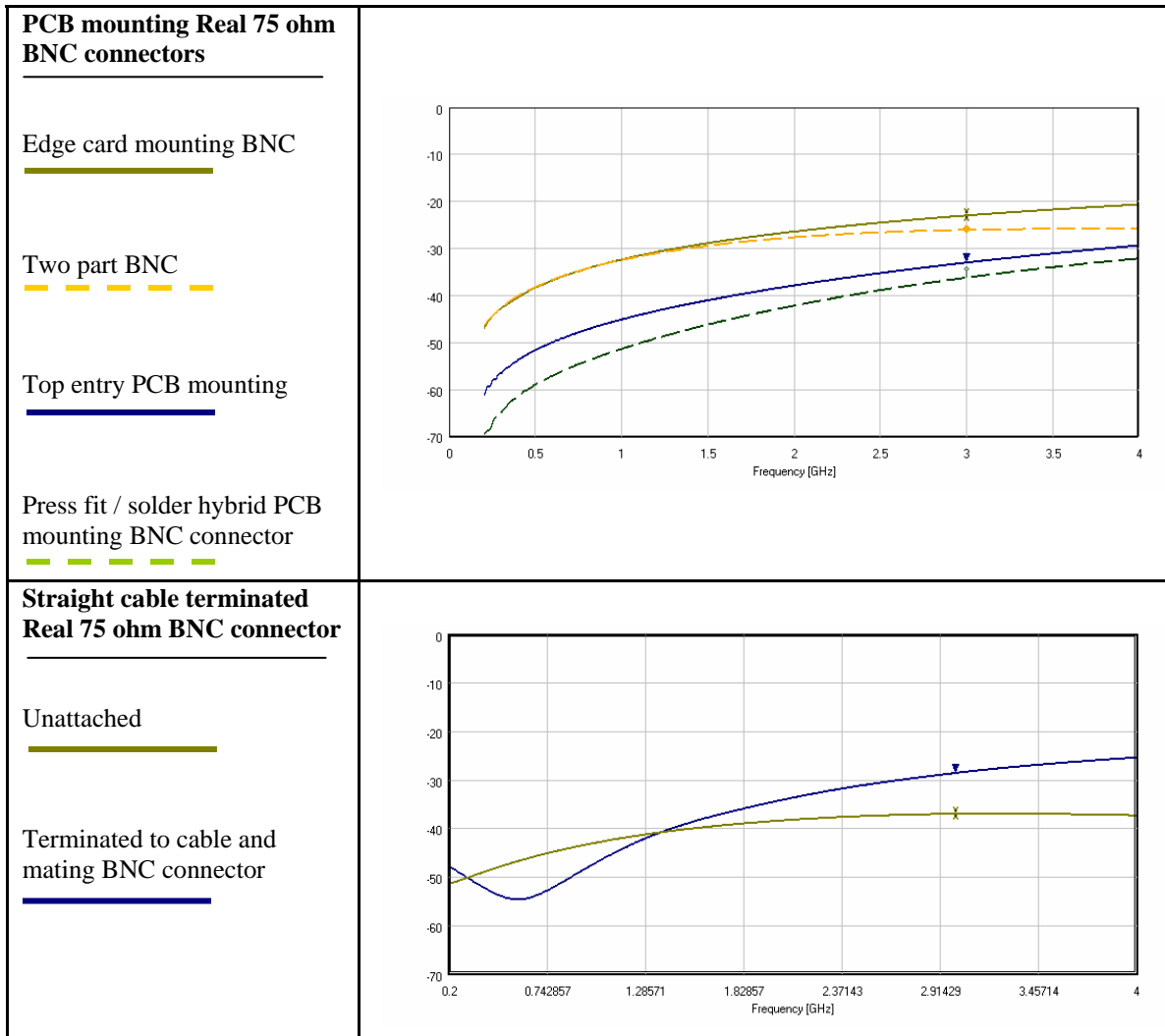


Real 75 ohm BNC Connectors for HDTV Serial Video Applications  
**Return loss measurements.**

The following graphs demonstrate return losses throughout a 0.2 GHz to 4GHz frequency sweep.



**Test**

**Method**

The connector was reverse engineered using a 3D parametric modelling system. Reverse engineering the finished connectors ensured that the CAD models closely represented the manufactured product, (original design models assume perfect manufacturing techniques and processors).The models were then analysed within a state of the art high frequency electromagnetic field simulation system.

In Real world applications both the PCB interface and the quality of the mating connector / cable can have a significant effect on the overall performance of the system. In order to provide meaningful engineering data, the simulation was set up with the source and load ports (near perfect 75 Ohm coaxial transmission lines) orientated longitudinally along the centre axis of the connector body, ensuring that the data generated was relevant to the DUT (Device under test) only.

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