## OK1DFC Septum feed 1296 - f/D: 0.32 By PA0PLY

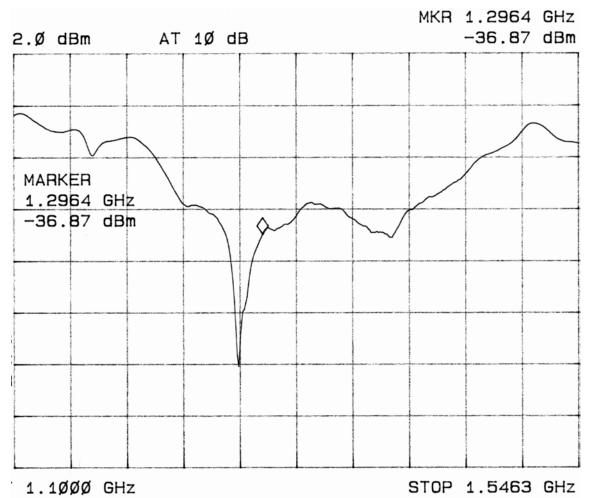
This feed was constructed using following dimensions:

Friday, 04 April 2003

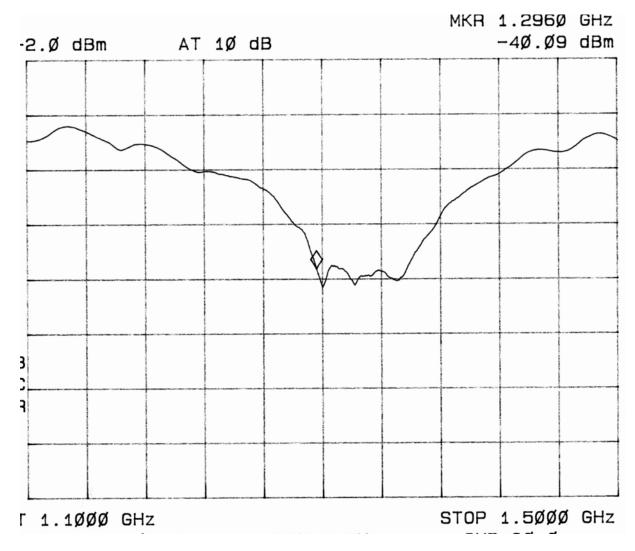
Length: 602mm Outside: 130 x 130mm

Monopole length: 38mm Distance to back wall: 44mm

Below graph shows the results for the RX section using above dimensions.



Below graph show the results for the TX section with different dimension for Position of monopole to back wall 43mm.



From my experience seems the position of the monopole is major defining the resonance of the feed while the length and probe can be used to 'fine-tune'. The TX graph shows more smooth / wide band behaviour compared to RX side. This might be the result of having the RX tuned as well when measuring the TX section. I suggest having the mounting of the connector to be adjustable for a few mm, so one can tune more precisely.