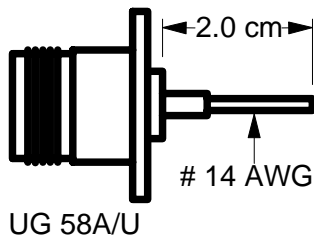
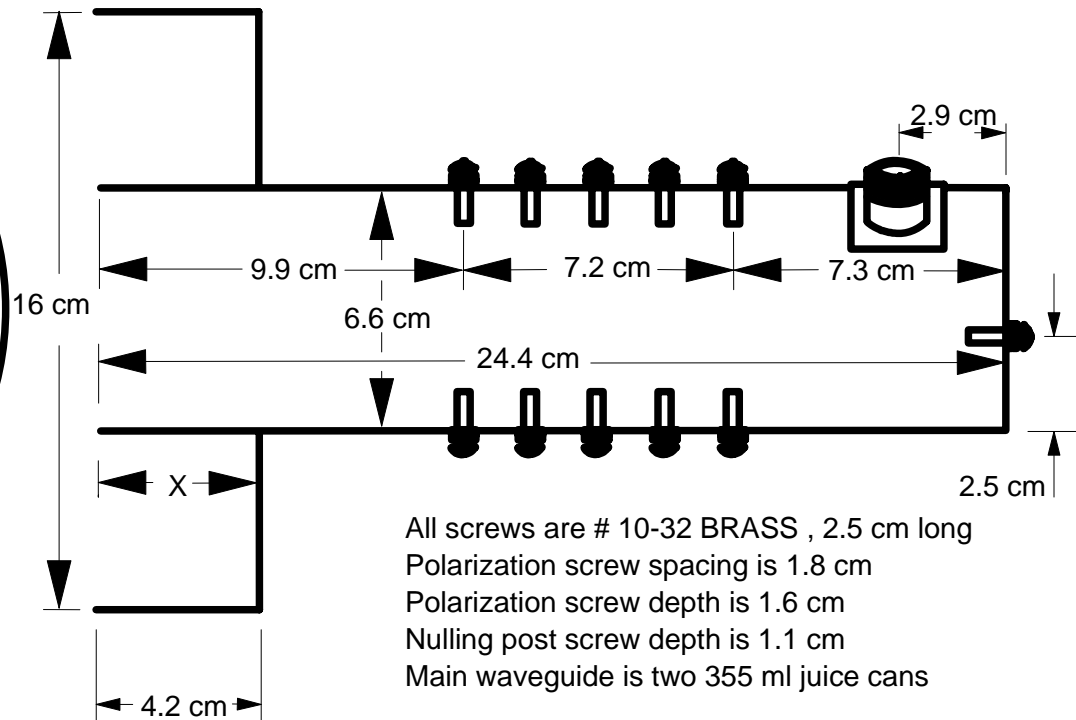
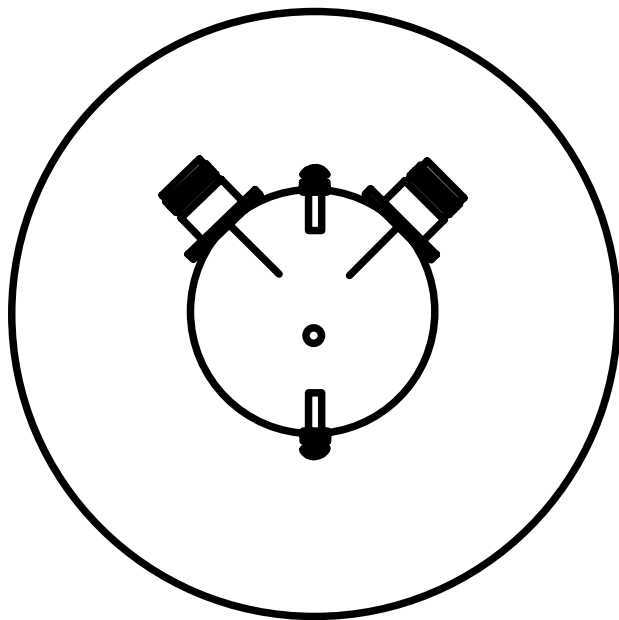


# VE4MA 3456 MHz CIRCULAR POLARIZATION FEEDHORN



All screws are # 10-32 BRASS , 2.5 cm long  
 Polarization screw spacing is 1.8 cm  
 Polarization screw depth is 1.6 cm  
 Nulling post screw depth is 1.1 cm  
 Main waveguide is two 355 ml juice cans

VSWR measured 1.15 : 1 (23 dB return loss)  
 Isolation between ports 23 dB  
 Polarization axial ratio 1.5 dB

Distance X can be varied for different f/D ratios  
 X is 4.2 cm for f/D of 0.4  
 Polarizer screws should be optimized after X is set