Circular Polarized Antennas

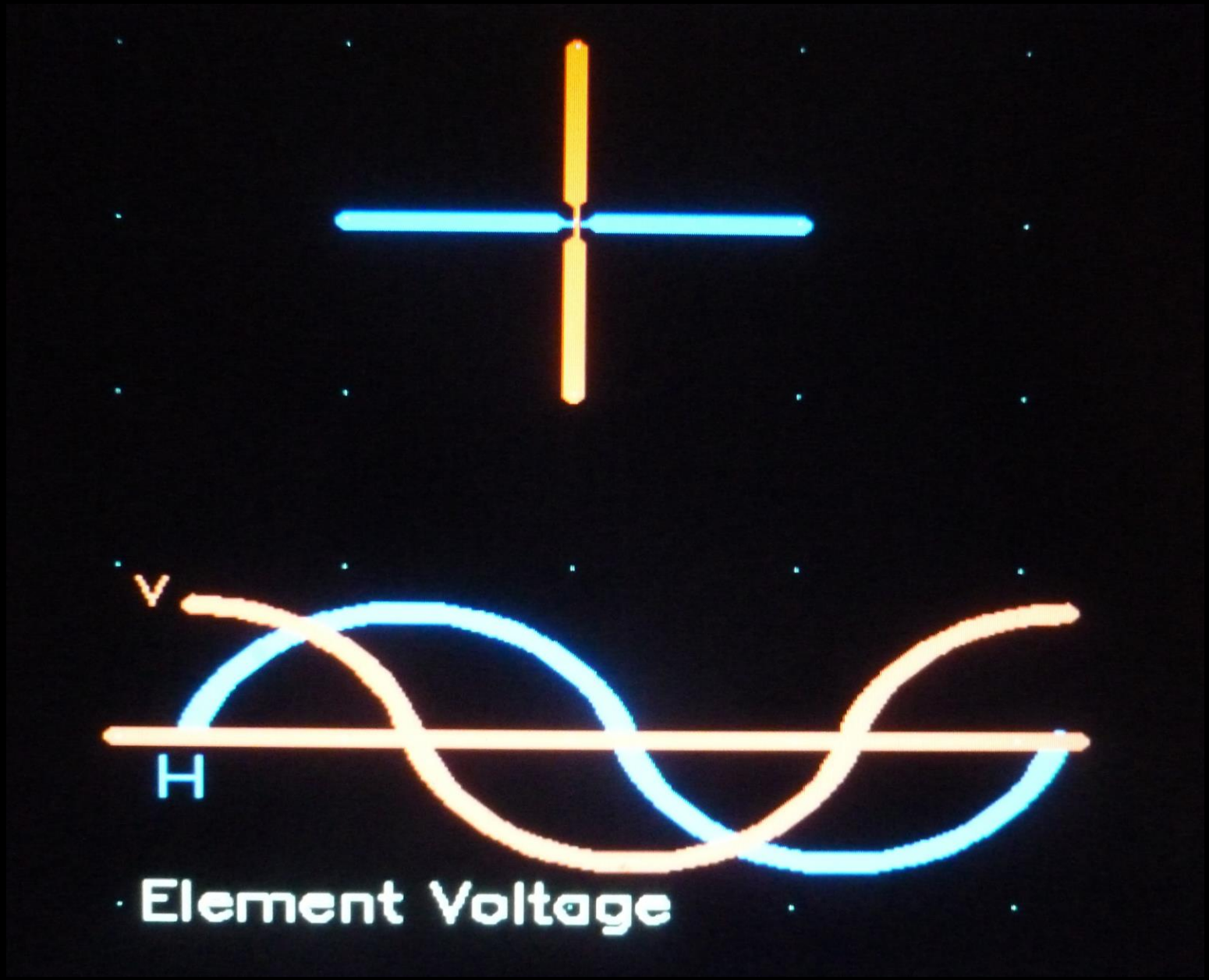
by

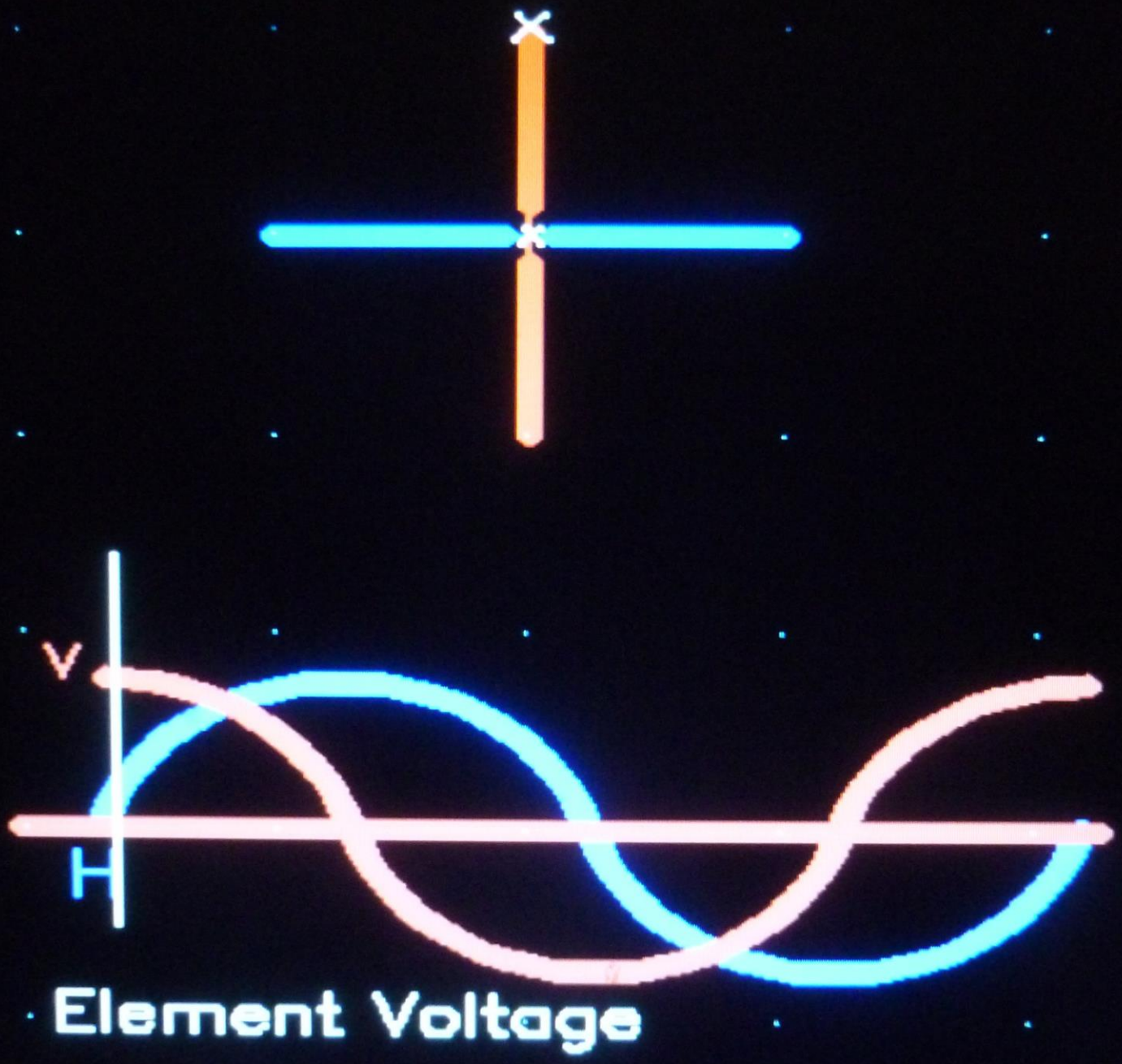
Kent Britain, WA5VJB

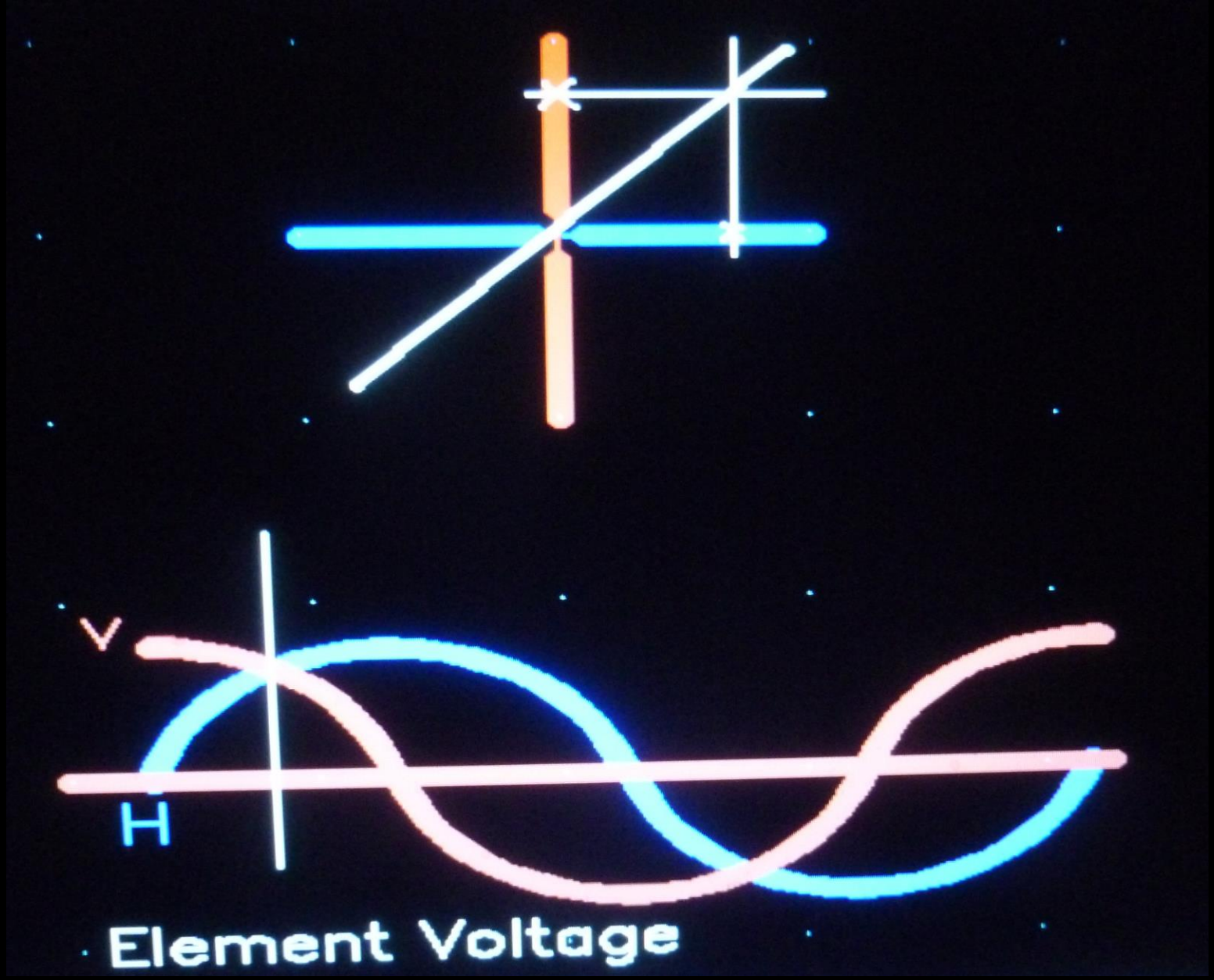
All Antennas are Elliptically Polarized

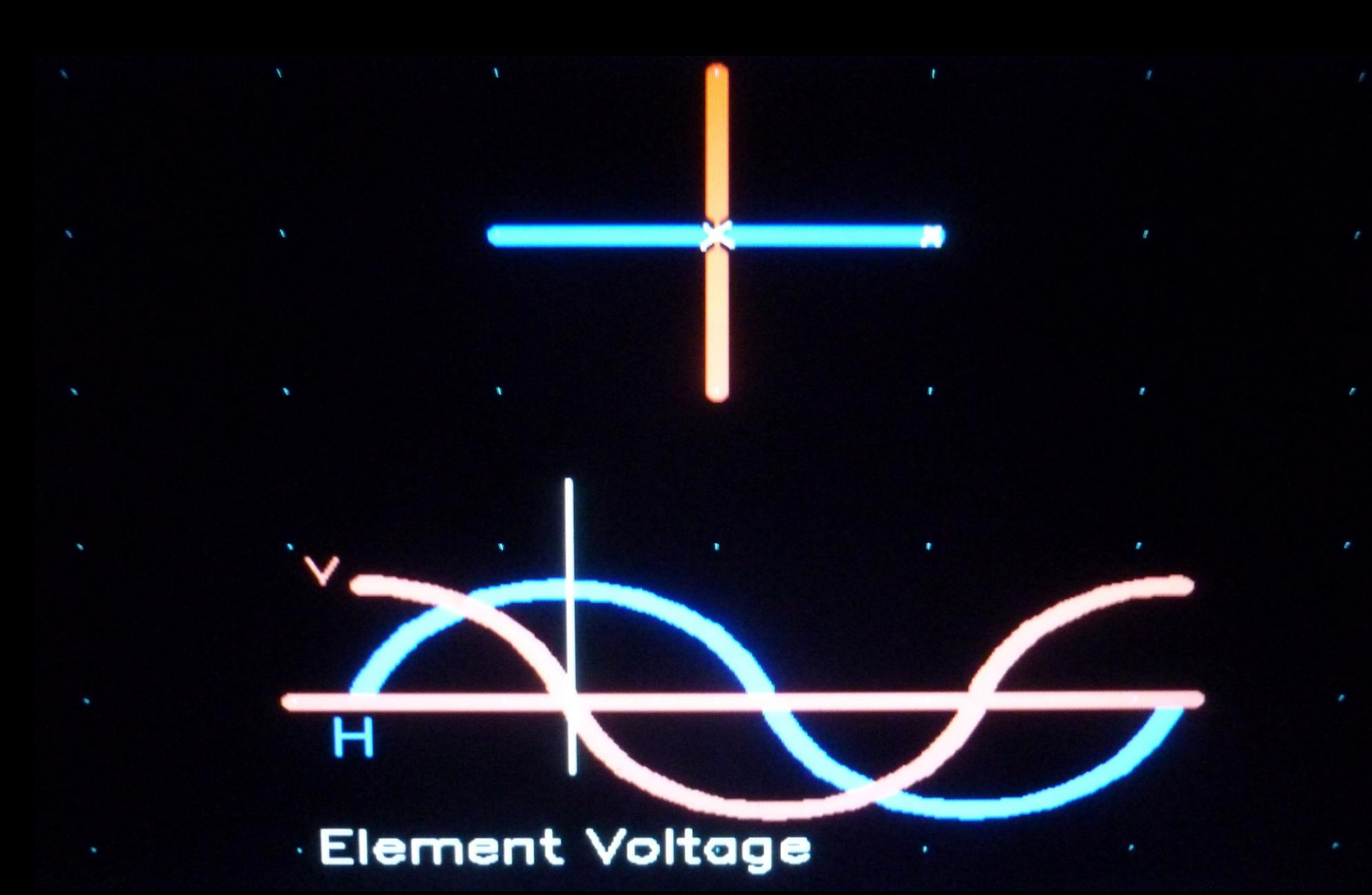
$1 < \text{Axial Ratio} < \infty$

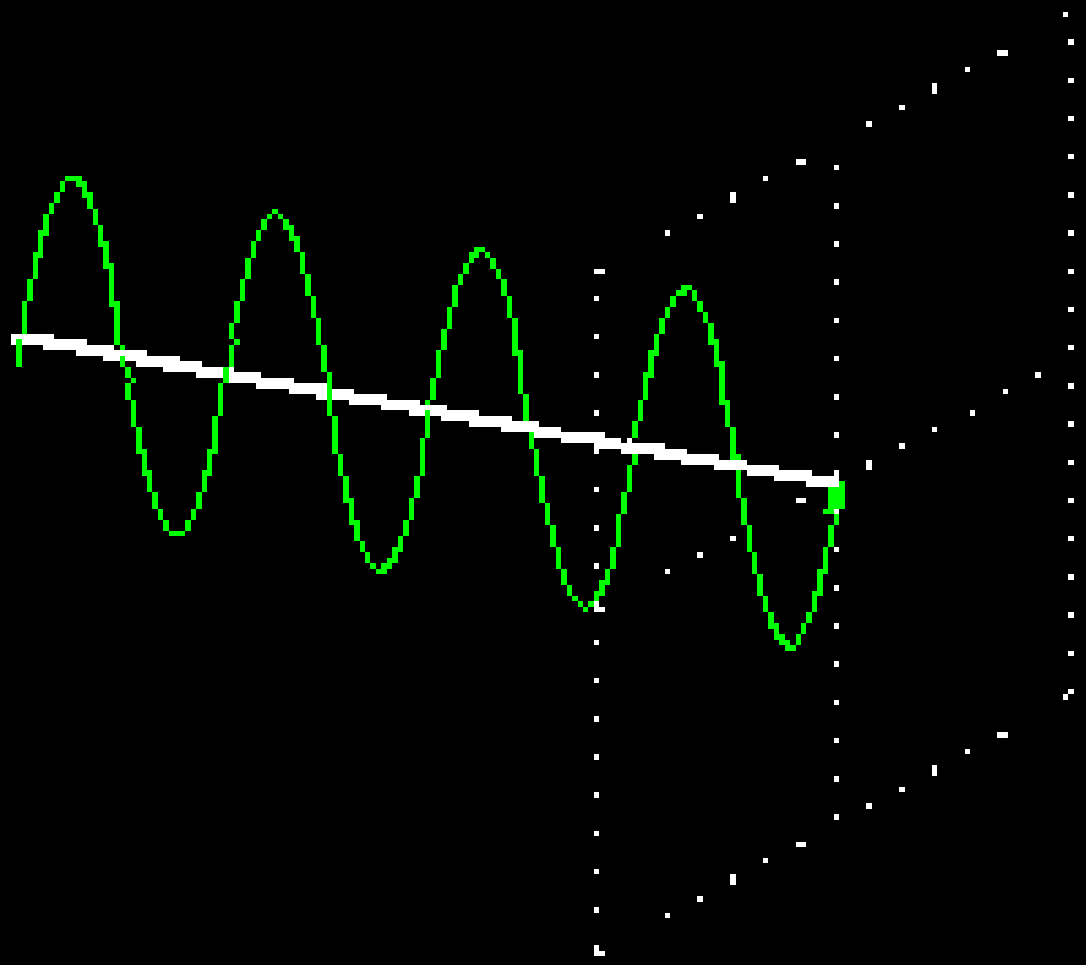

WARNING
1 2 3 4 5

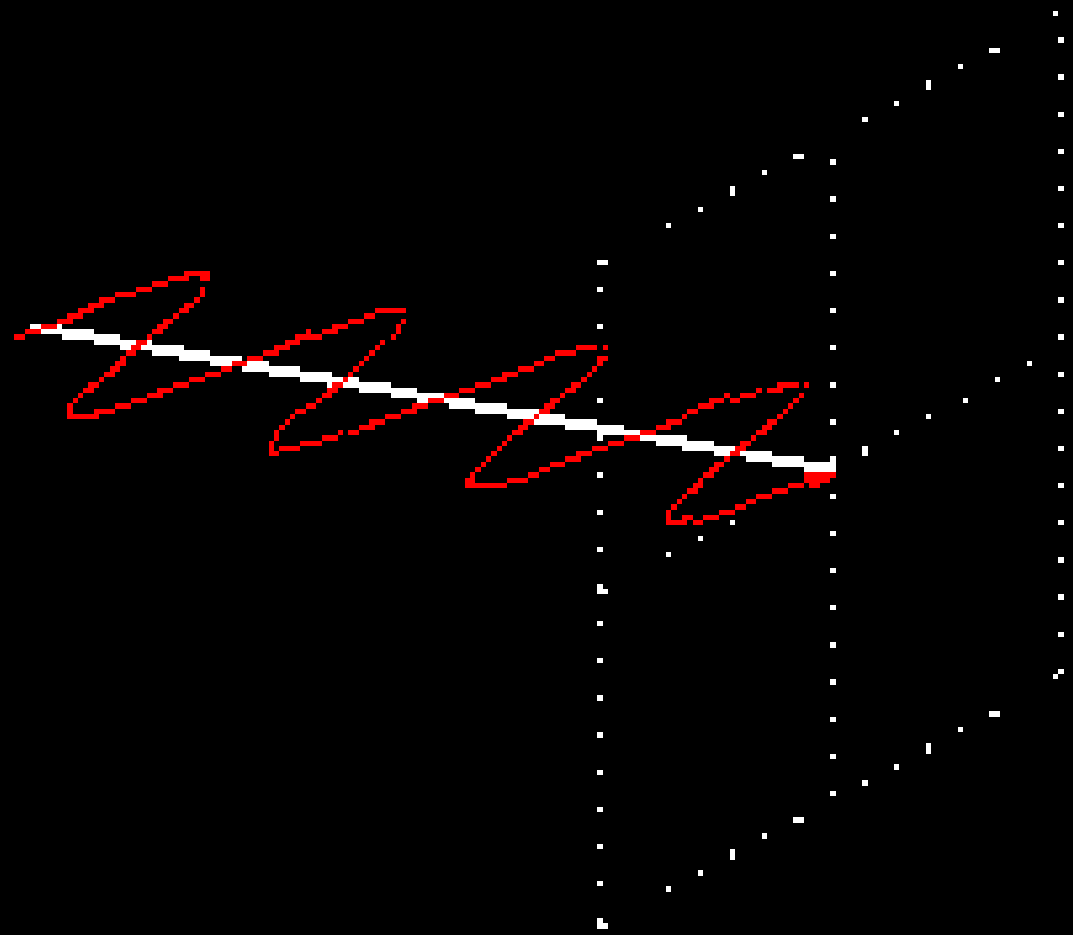

V
H
Element Voltage

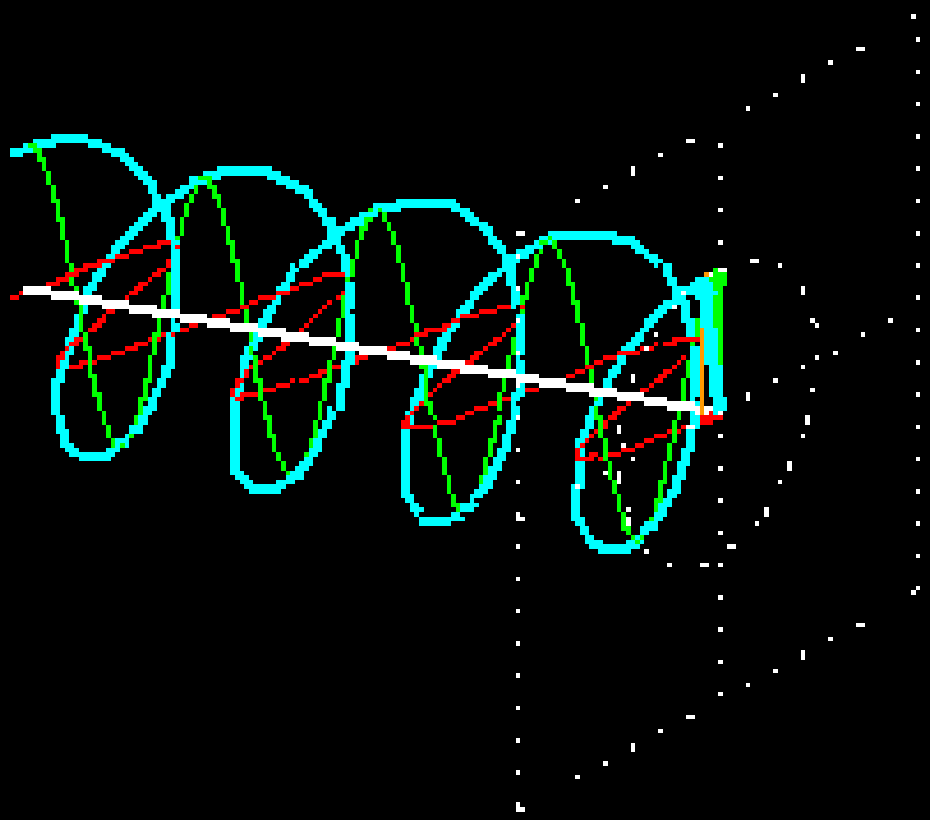

X
V
H
Element Voltage

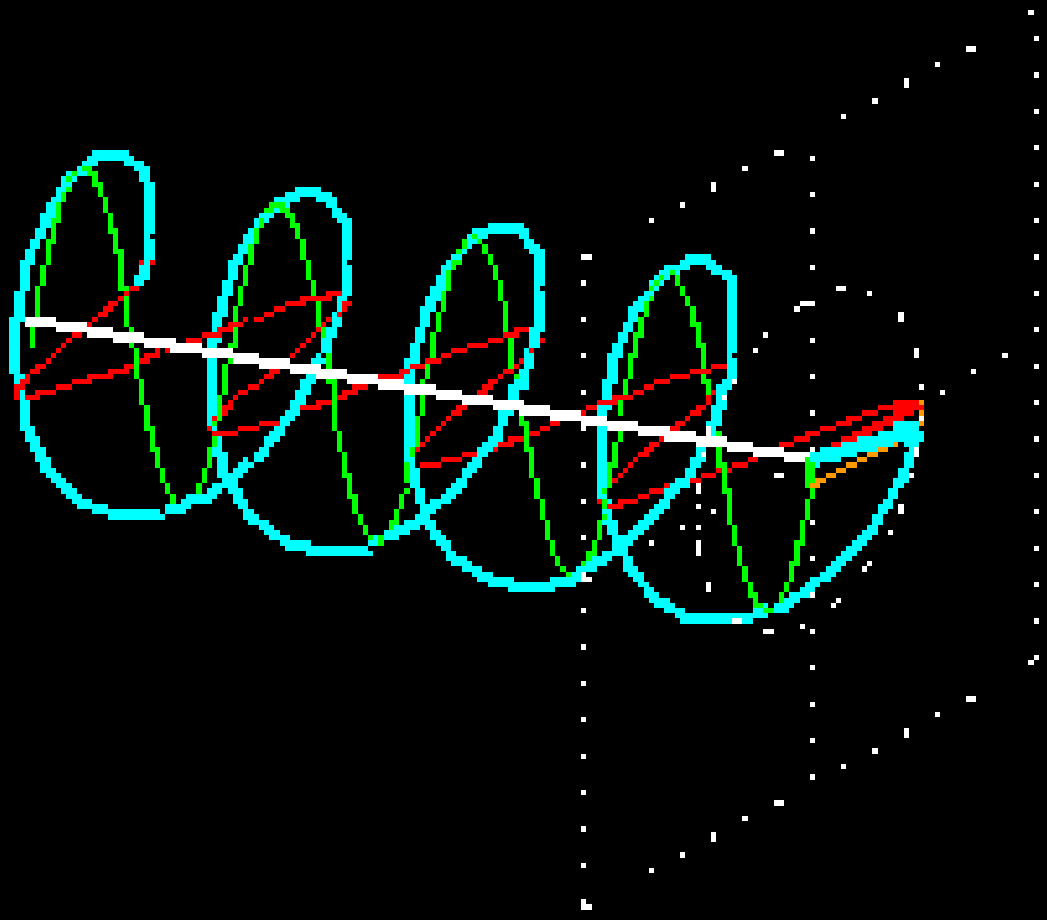

V
H
Element Voltage


V
H
Element Voltage

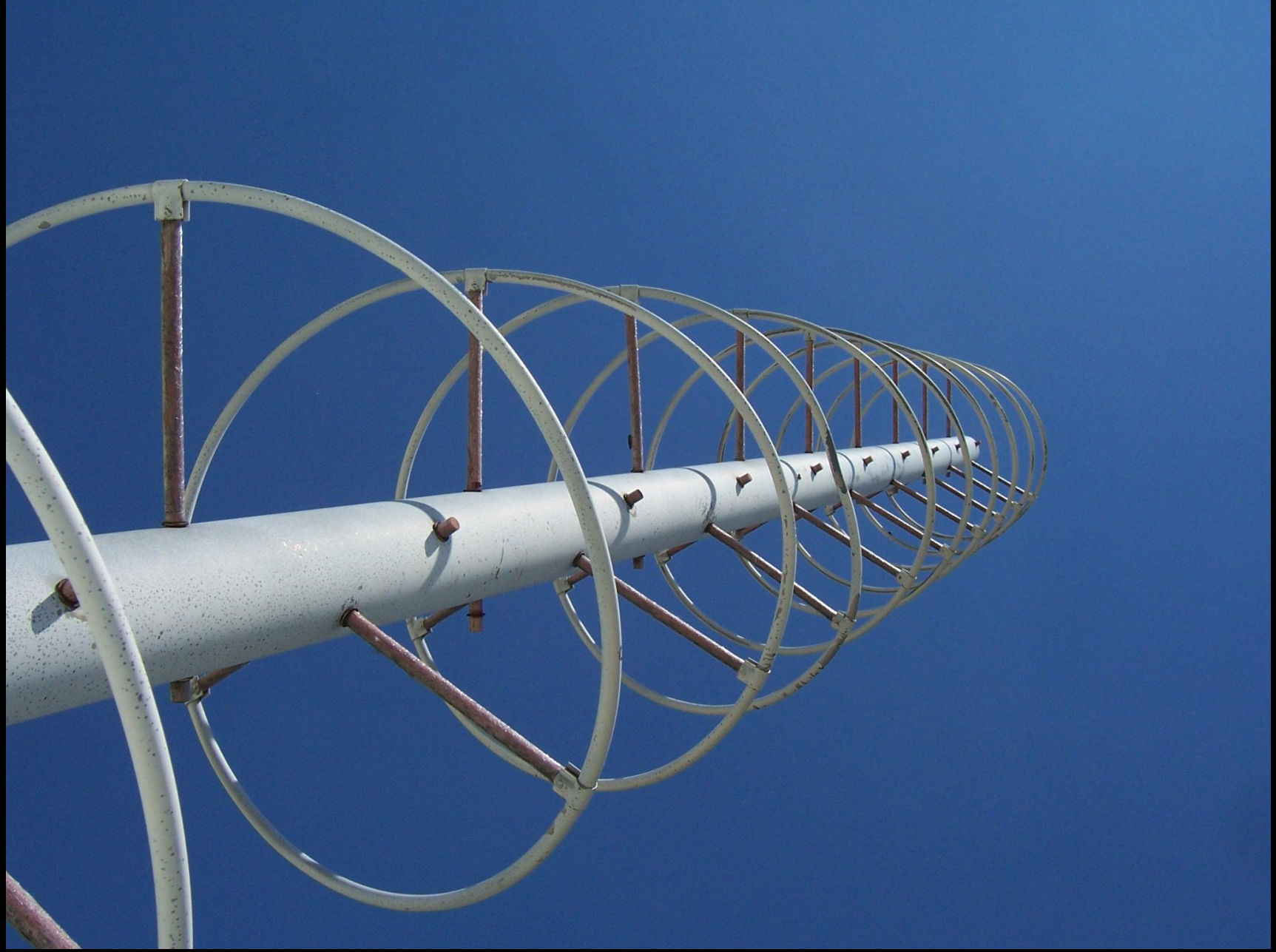


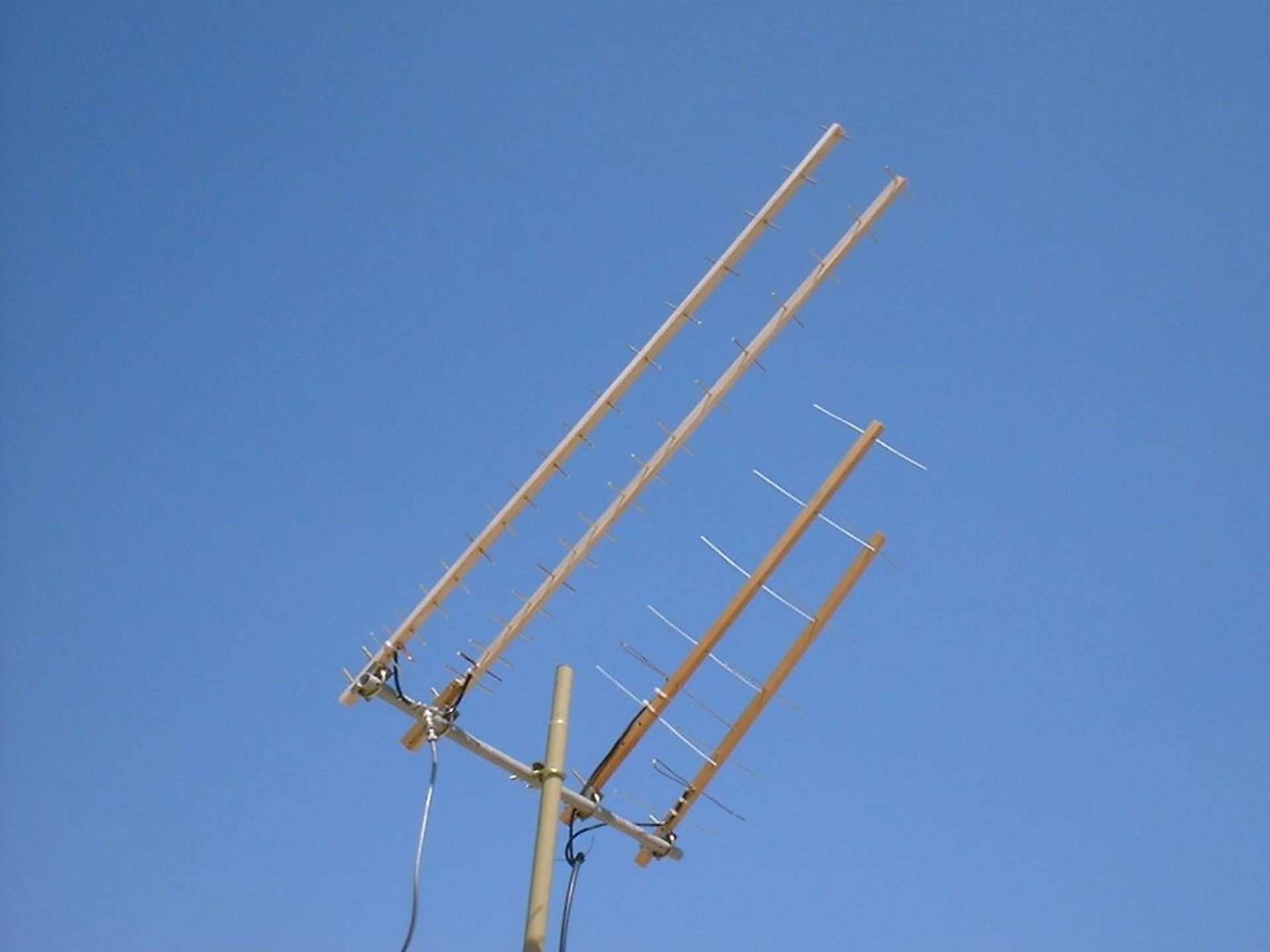


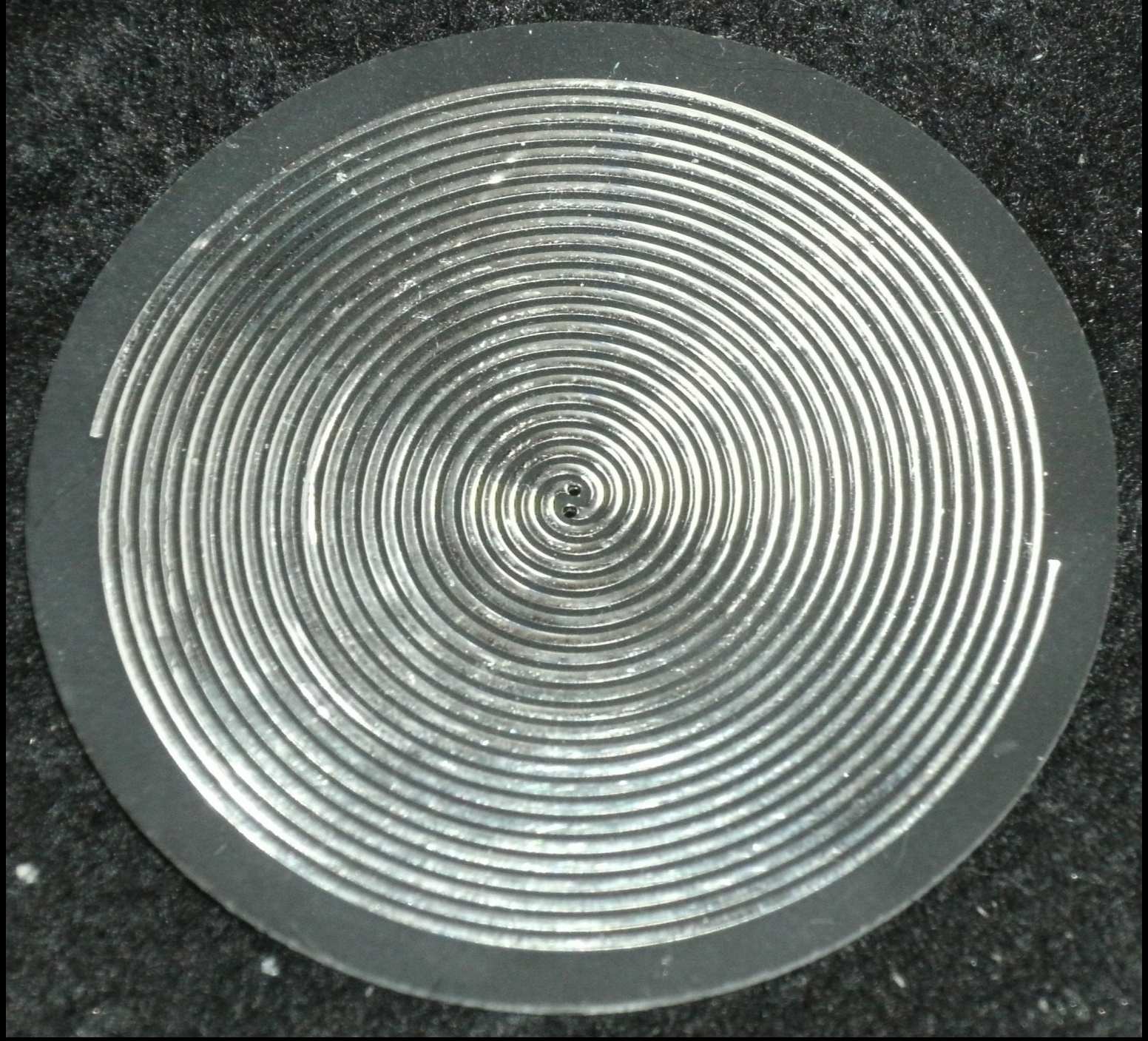





LIBERTY
IN GOD WE TRUST
1986
D
24GHZ Helix??
K3VDB 24-7-03








LHCP
RHCP

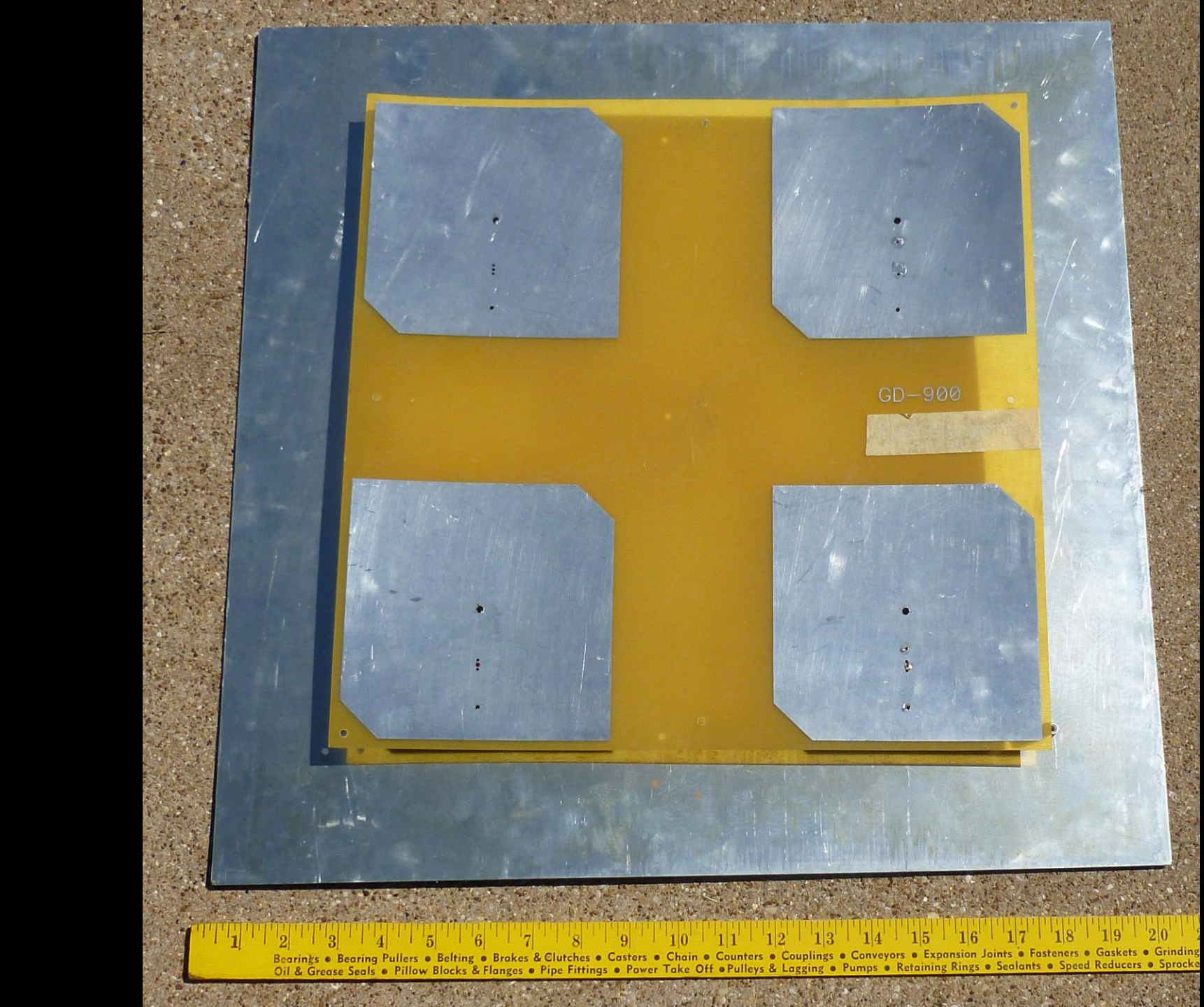

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
PRECISION
PREC

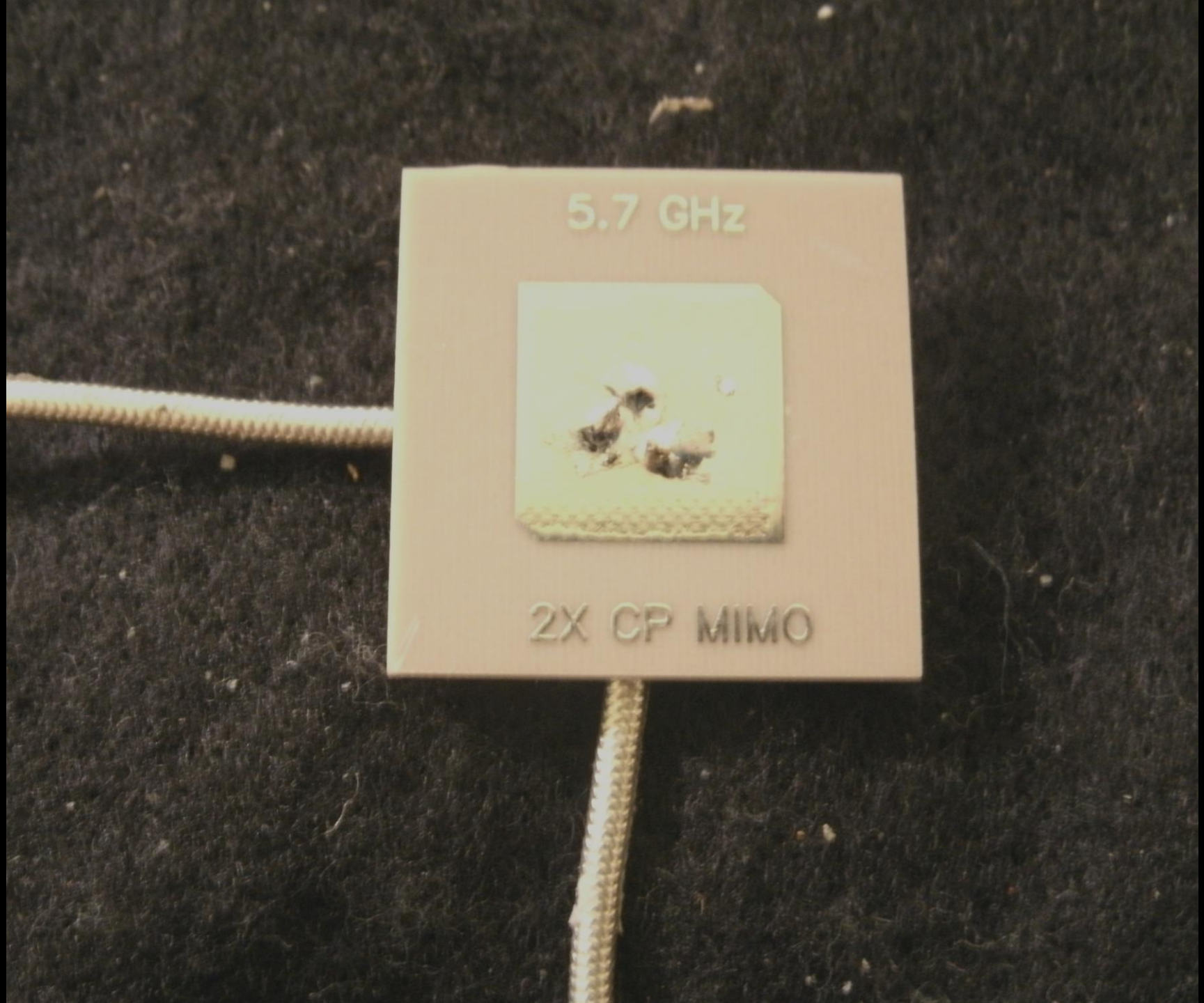
Techitrol

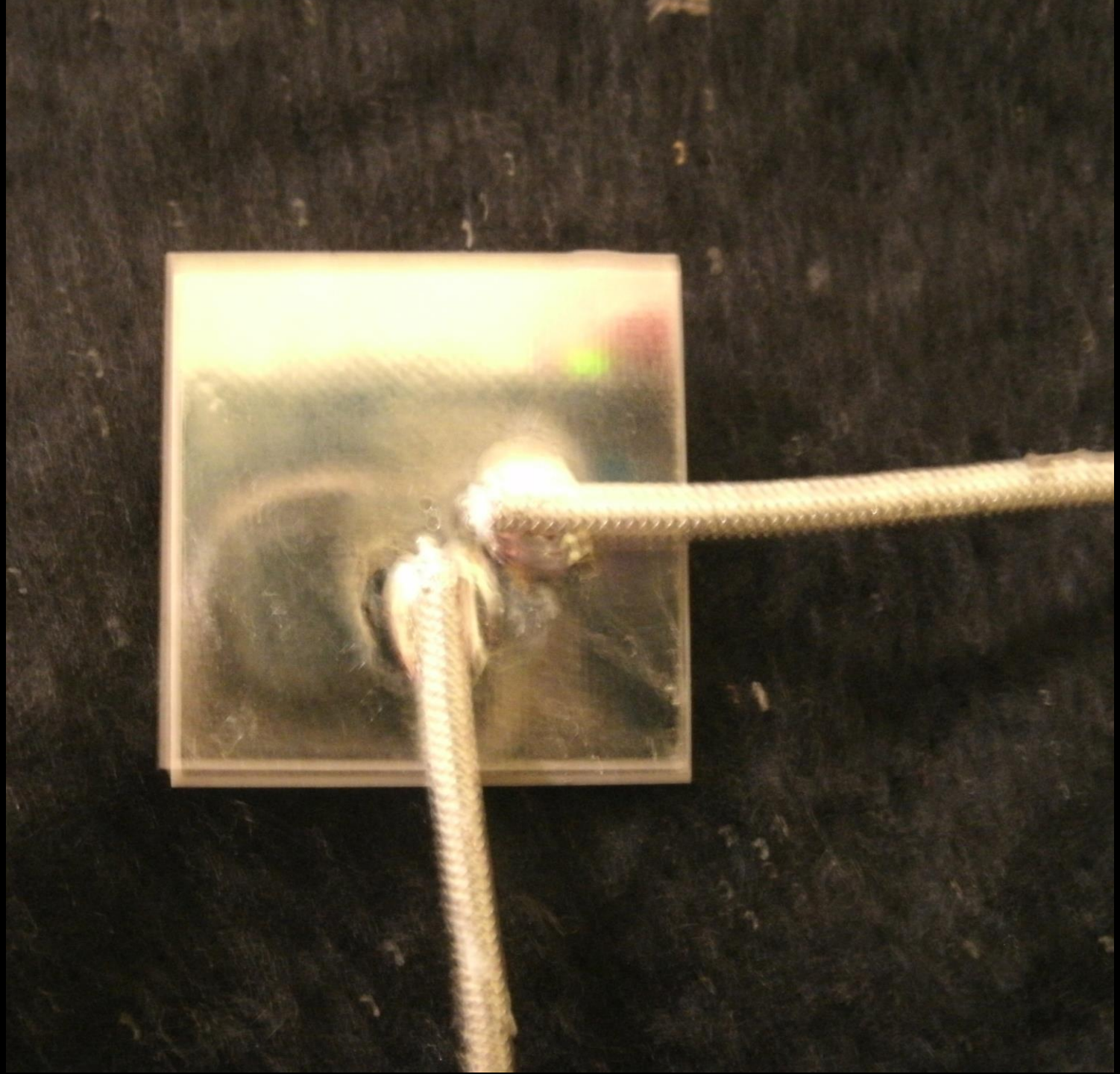
Techitrol

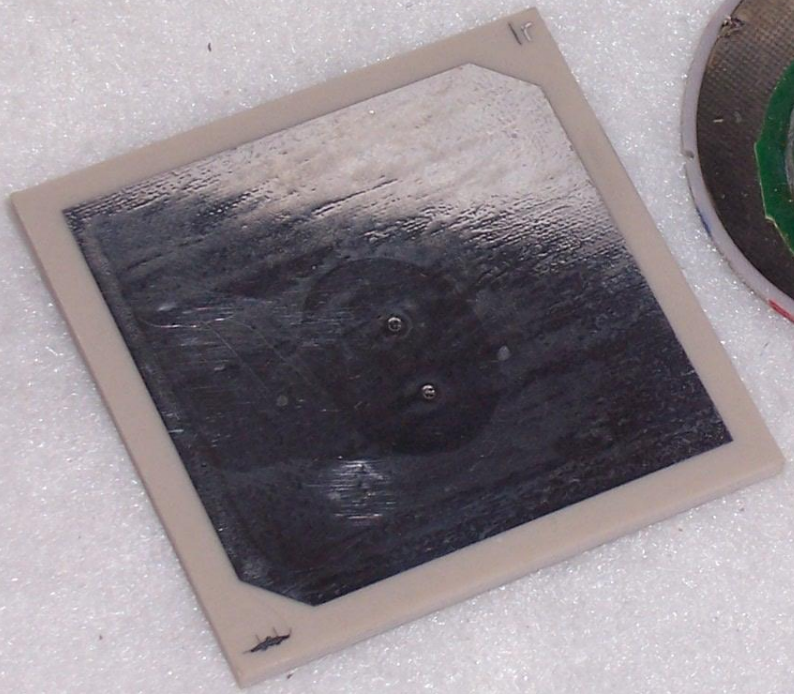
Techitrol

Techitrol

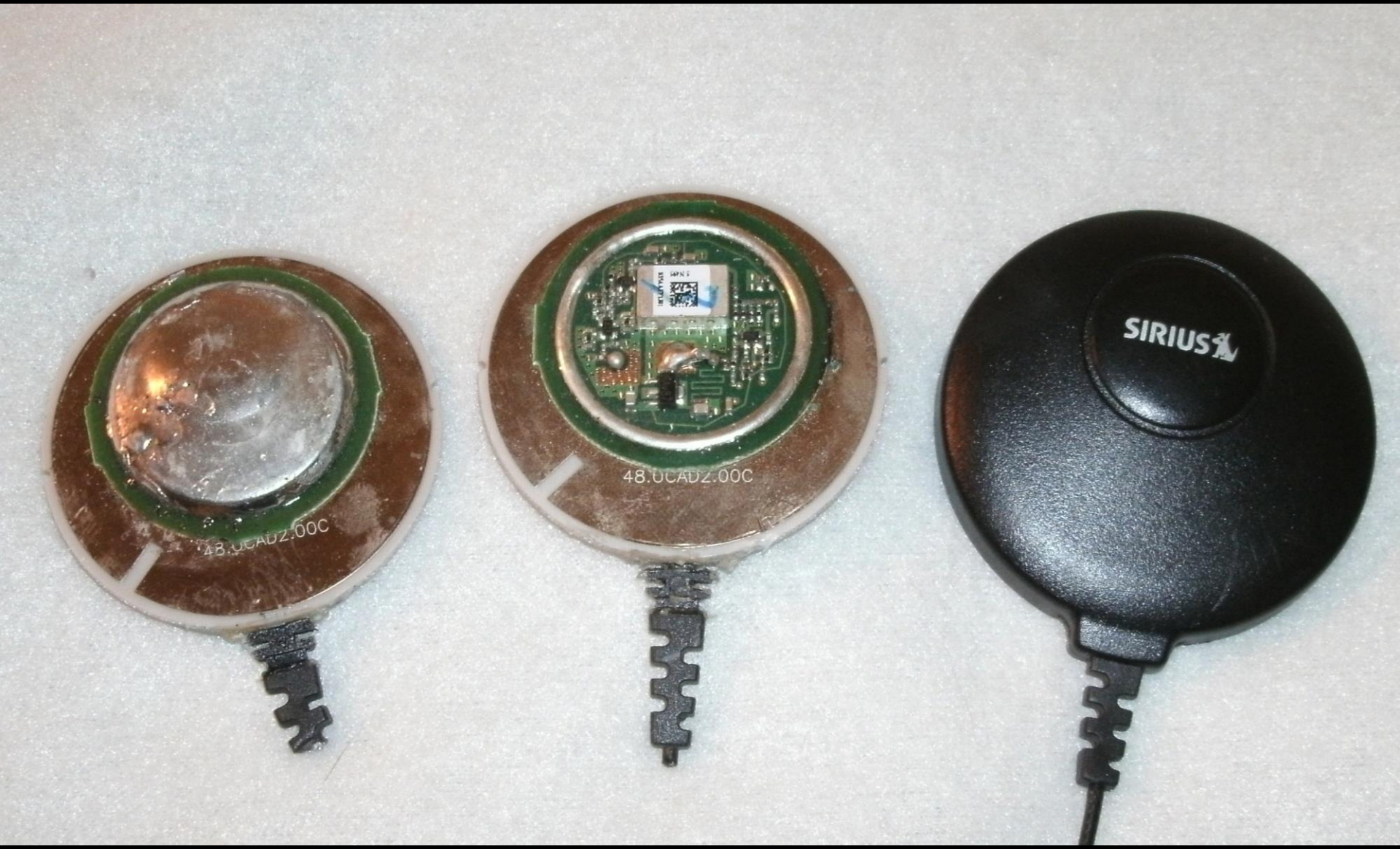

GD-900
Bearings • Bearing Pullers • Belting • Brakes & Clutches • Casters • Chain • Counters • Couplings • Conveyors • Expansion Joints • Fasteners • Gaskets • Grinding
Oil & Grease Seals • Pillow Blocks & Flanges • Pipe Fittings • Power Take Off • Pulleys & Lagging • Pumps • Retaining Rings • Sealants • Speed Reducers • Sprocke

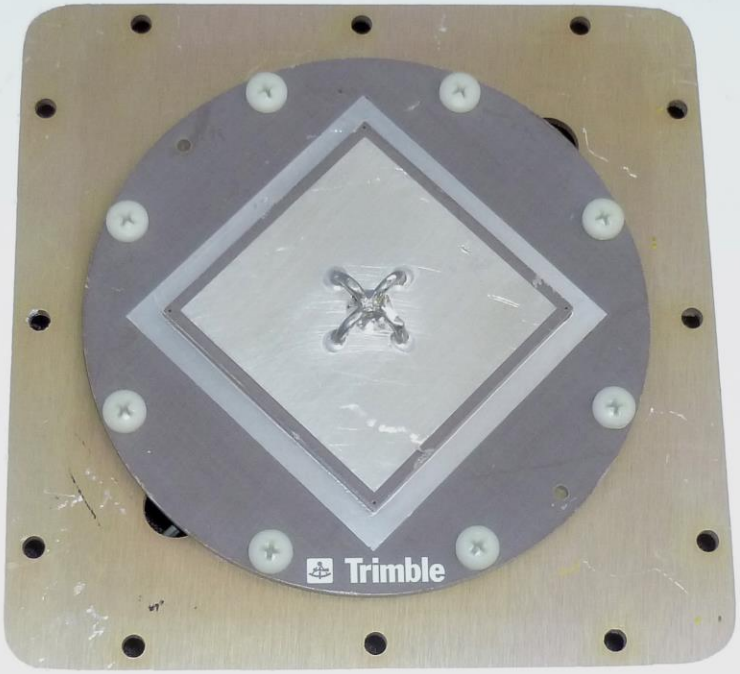

5.7 GHz
2X CP MIMO

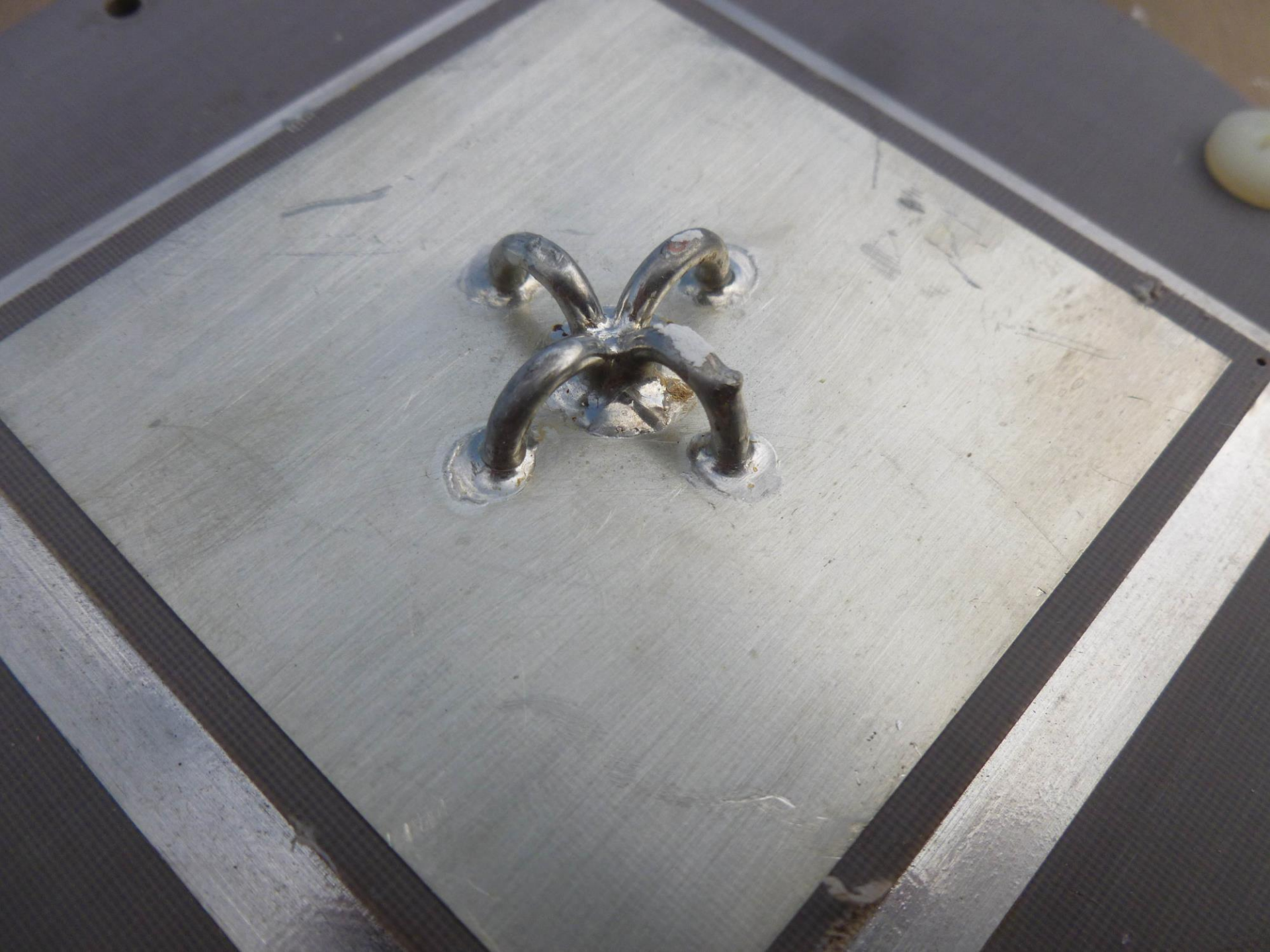


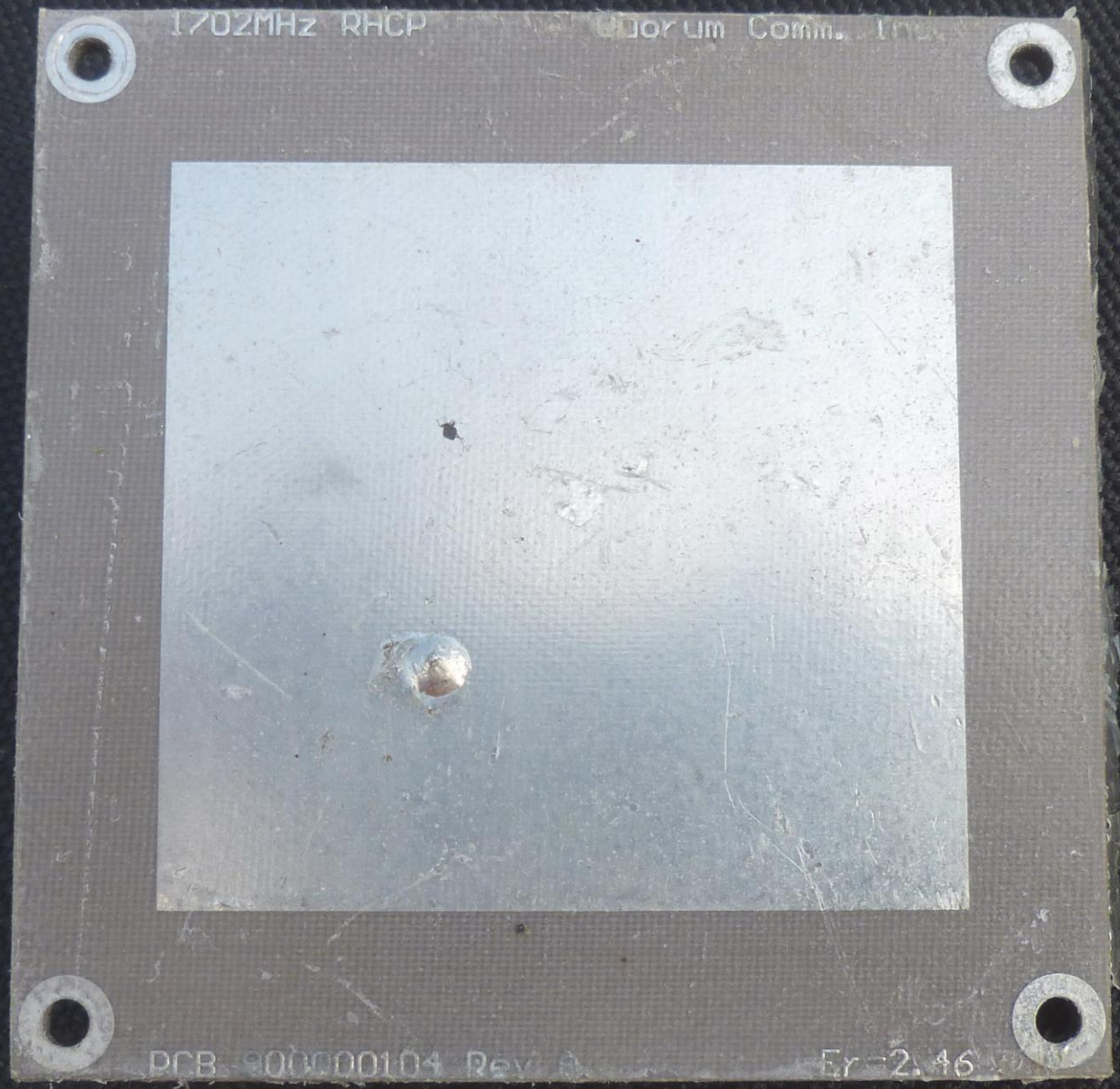


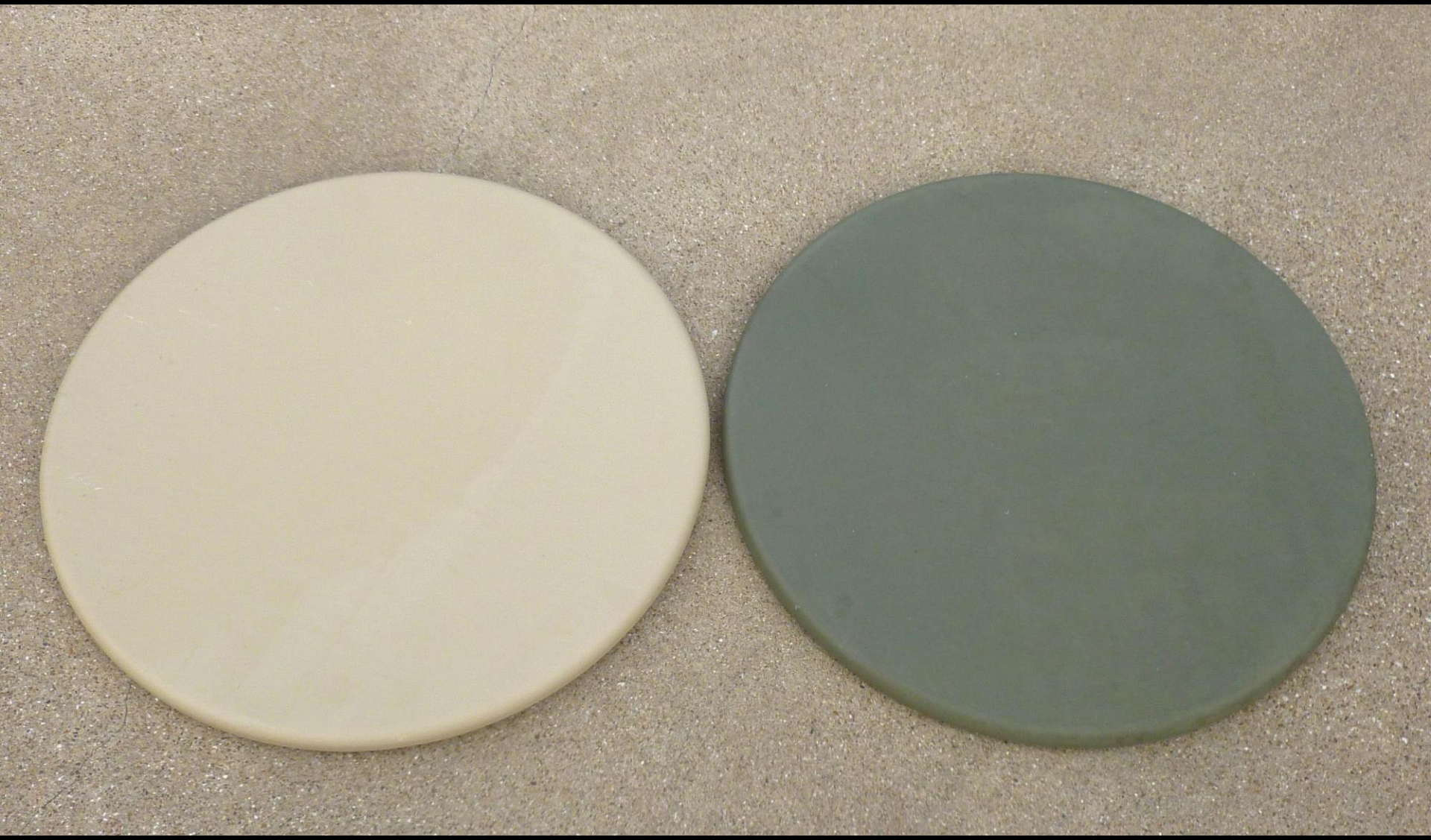

SIRIUS

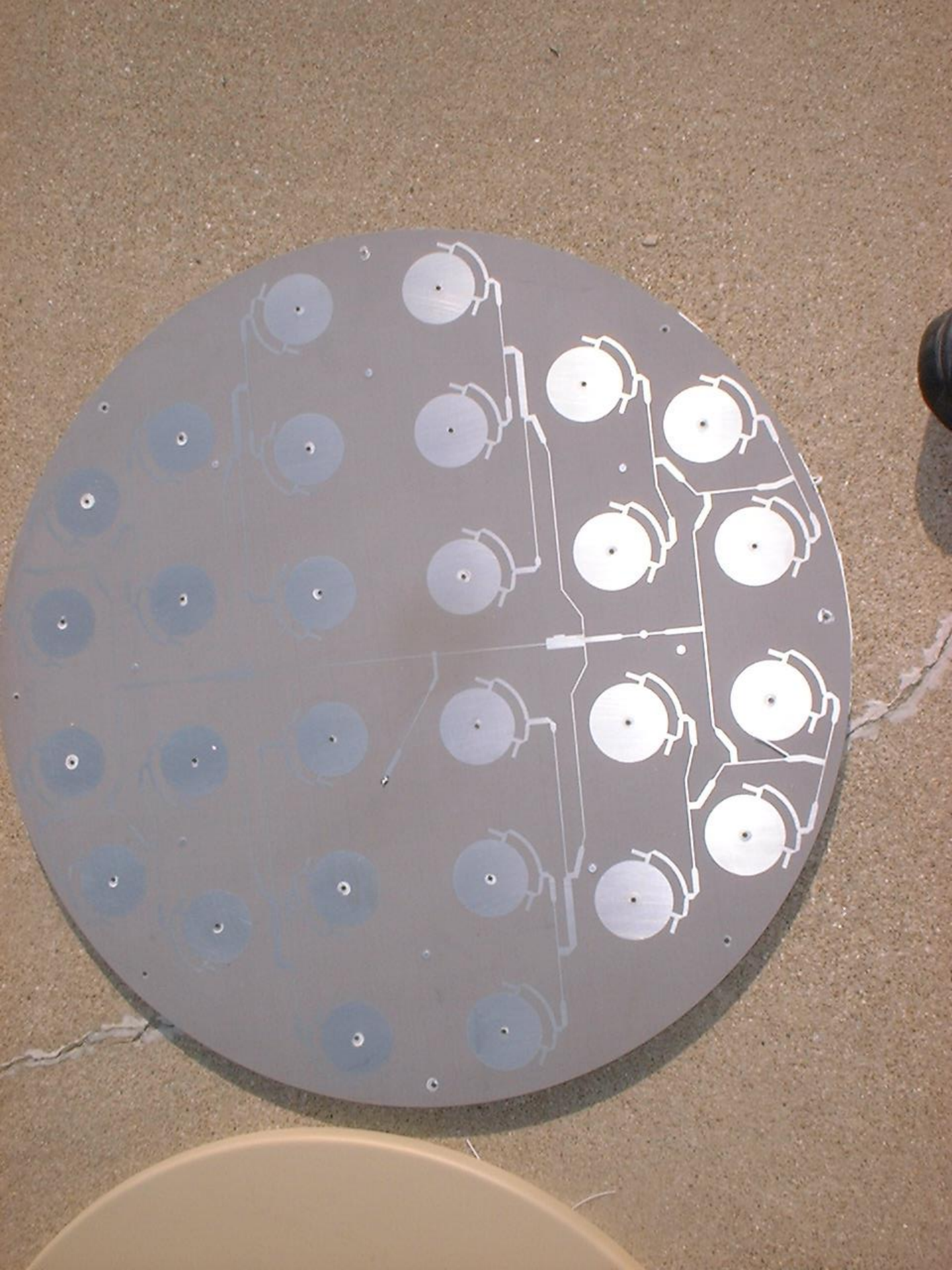

48.0CAD2.00C
48.0CAD2.00C
SIRIUS

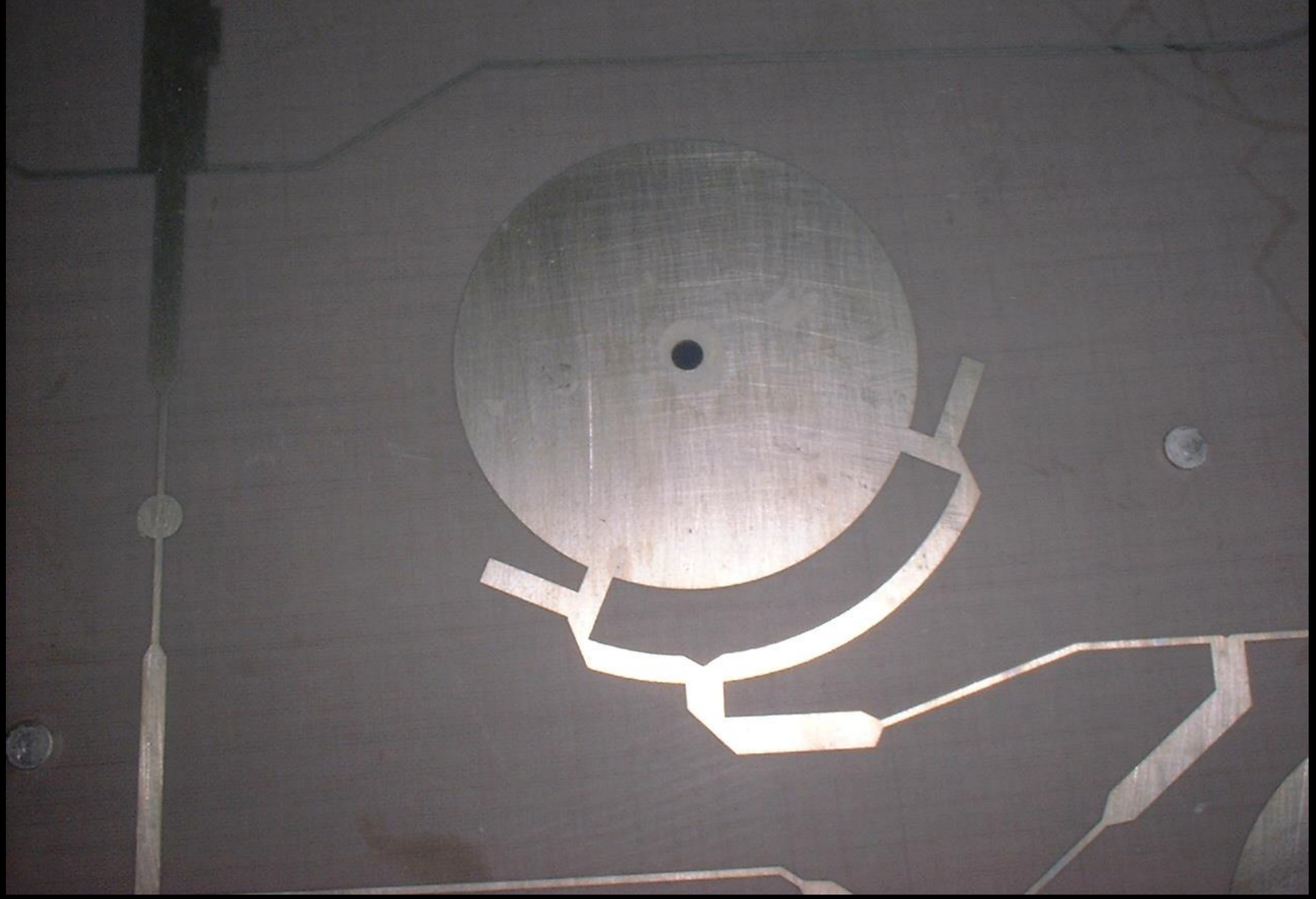

Trimble

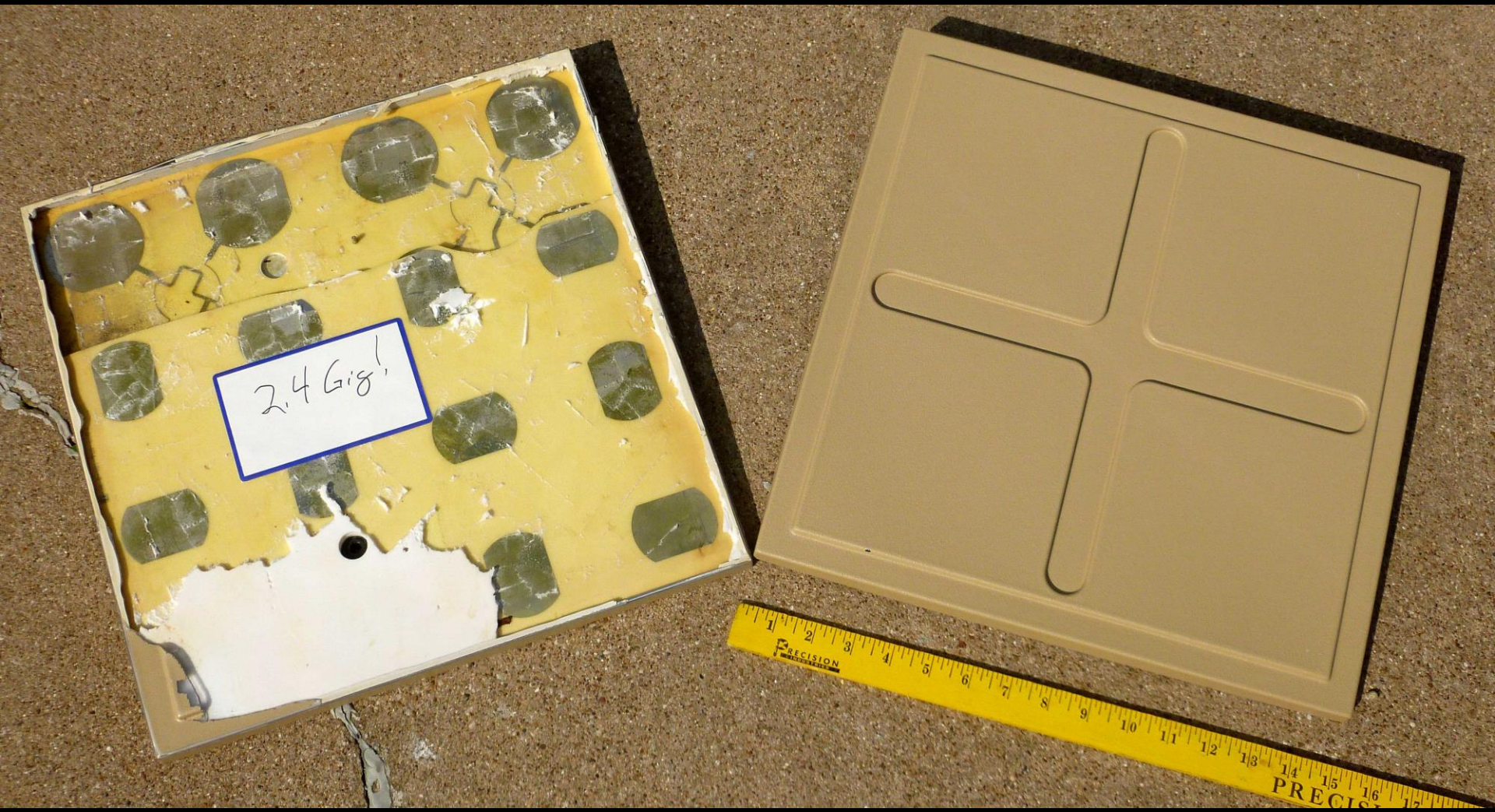


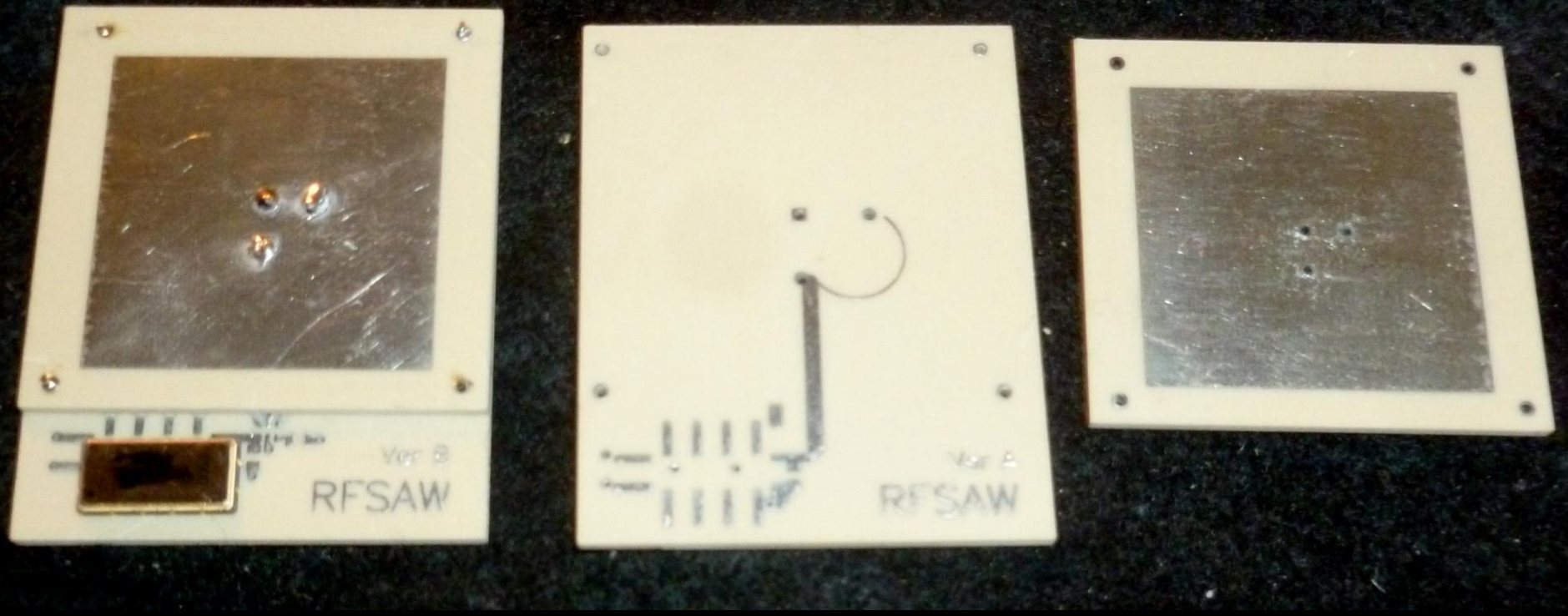

1702MHz RHCP
PCB 900000104 Rev
Er=2.46







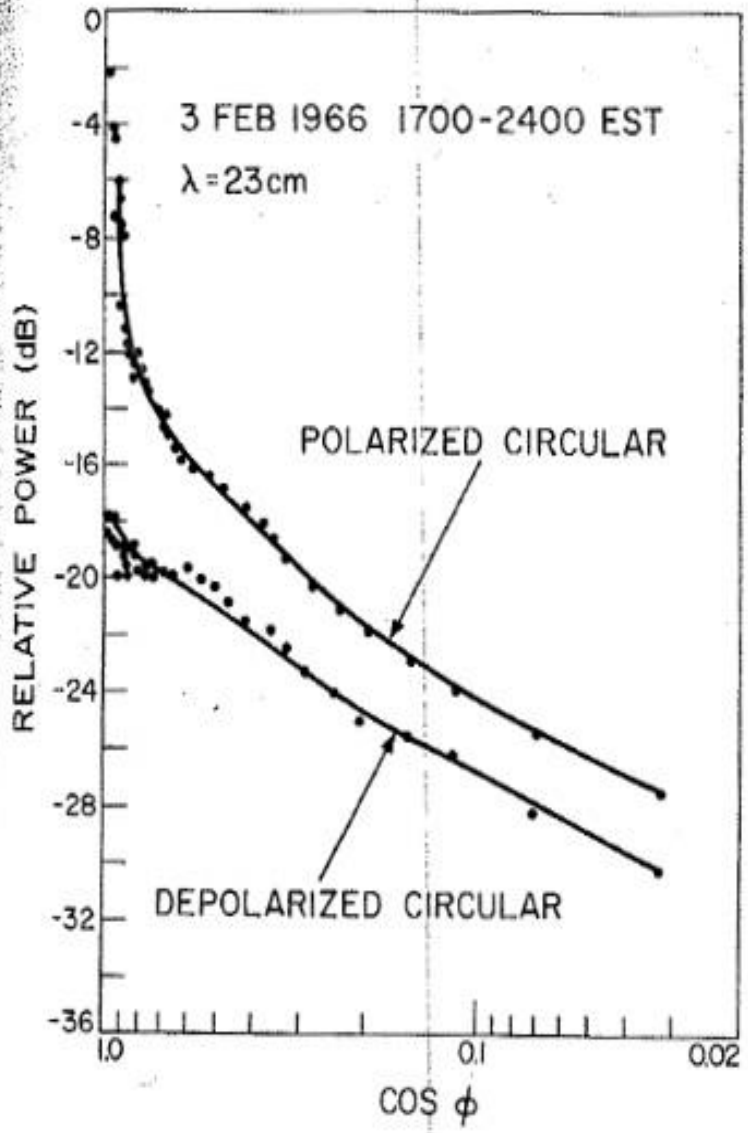

2.4 GHz


RFSAW
RFSAW


L-Band


RFSAW

to the ratio of powers received in the two orthogonal modes at the point where the noise calibration pulse is inserted into the system when the antenna is illuminated by a plane unpolarized wave along the main beam.



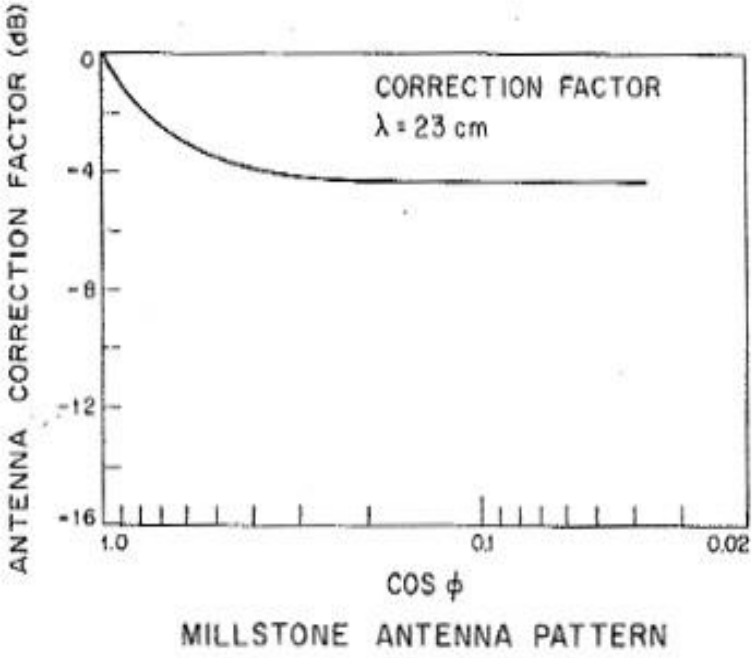
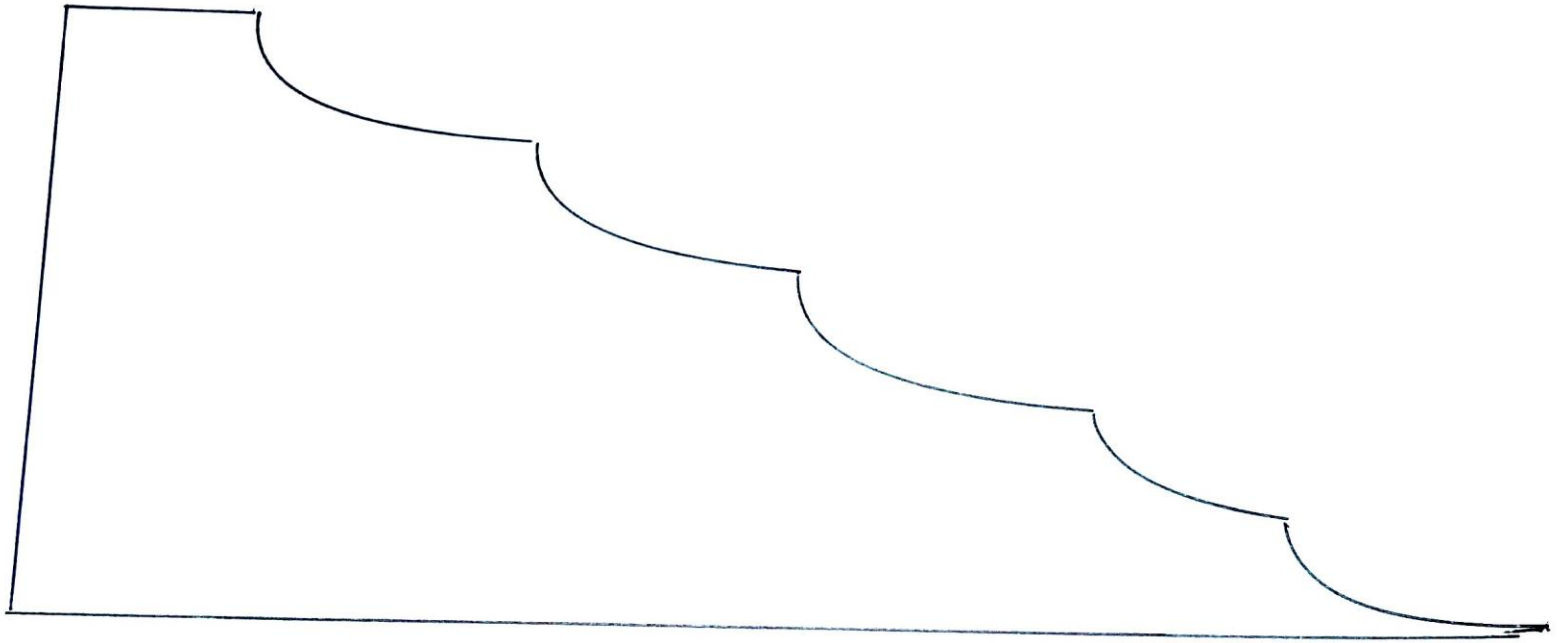
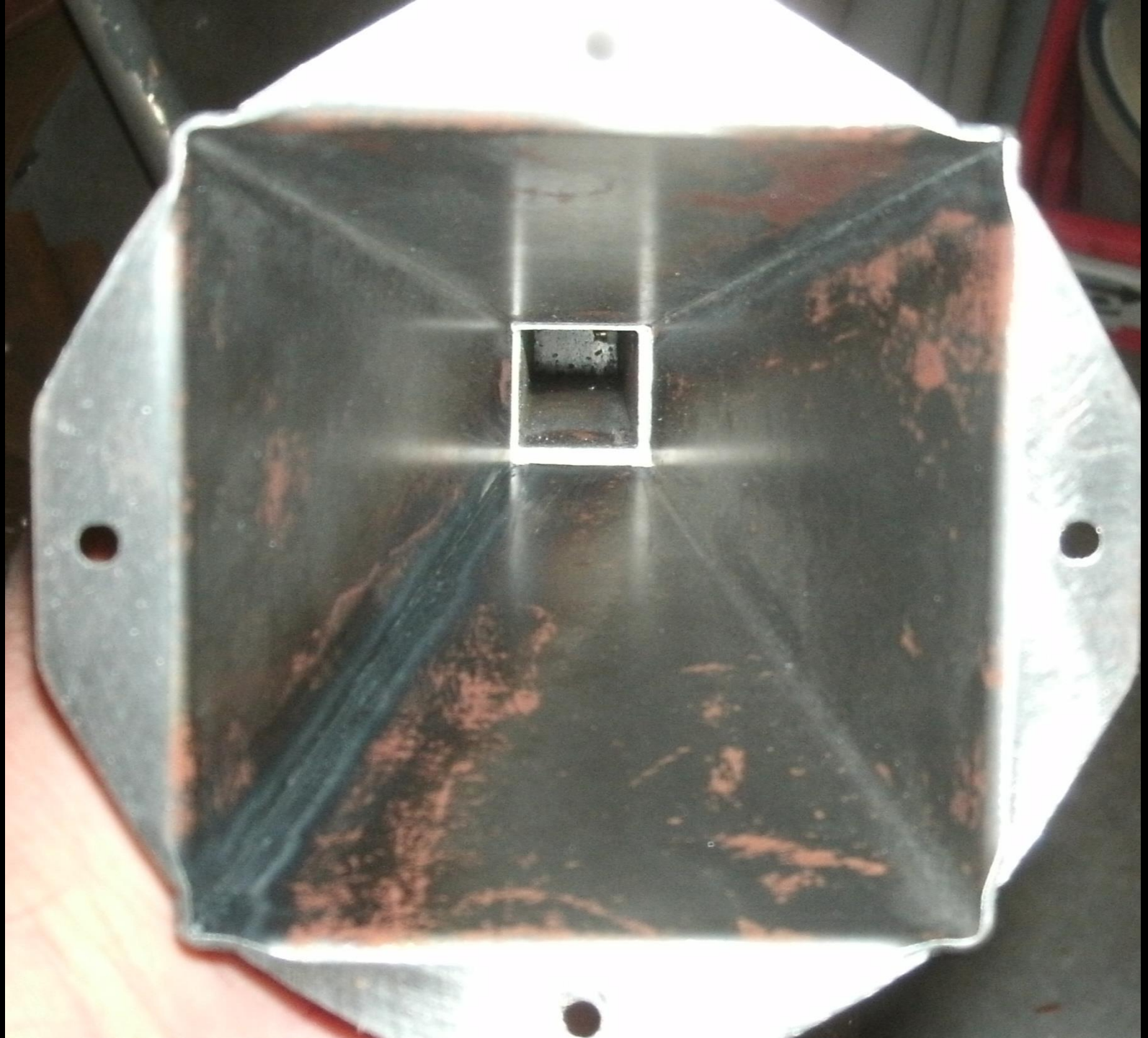


FIGURE 3. *Two-way antenna correction factor in decibels plotted against cosϕ.*

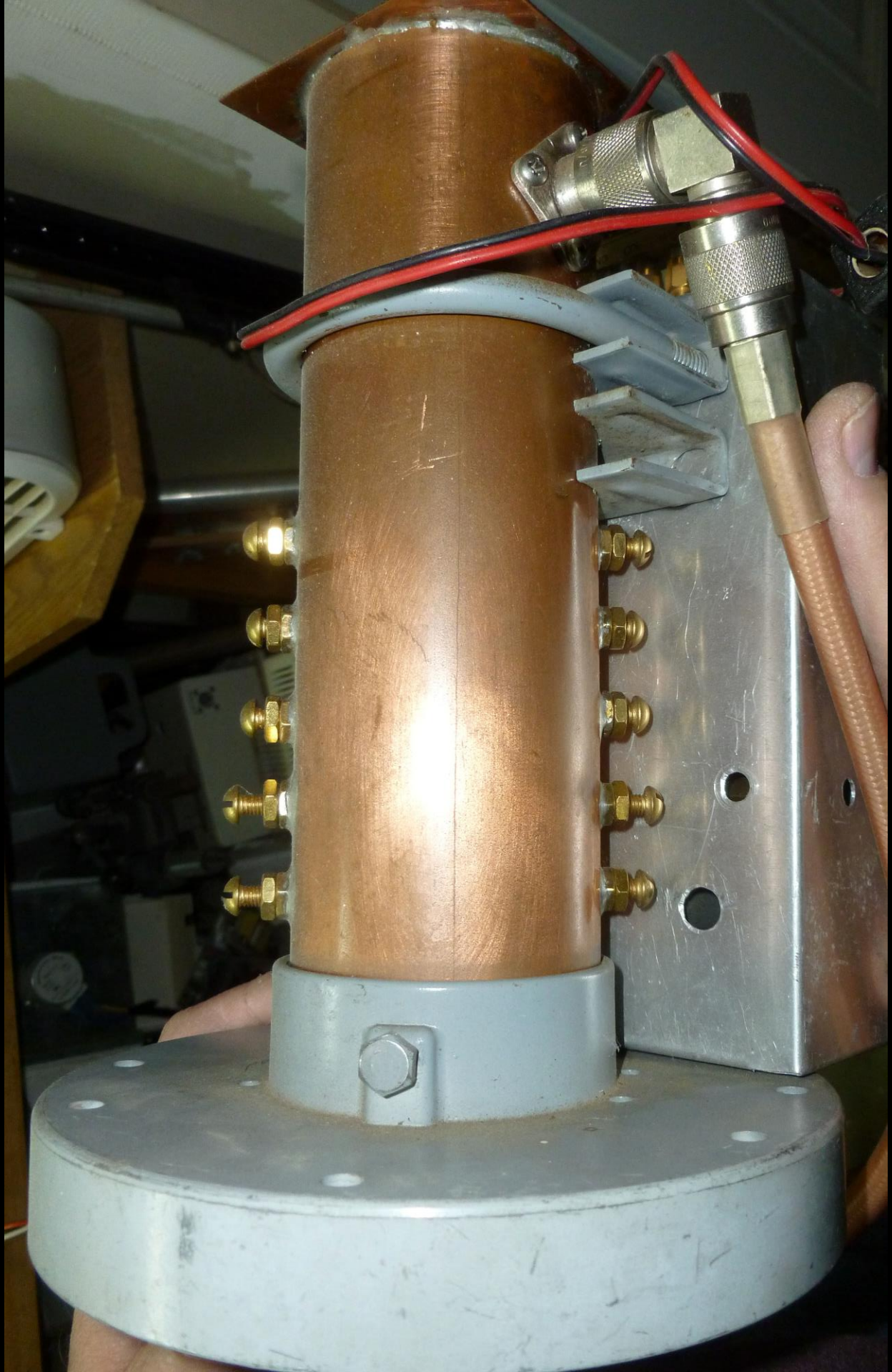


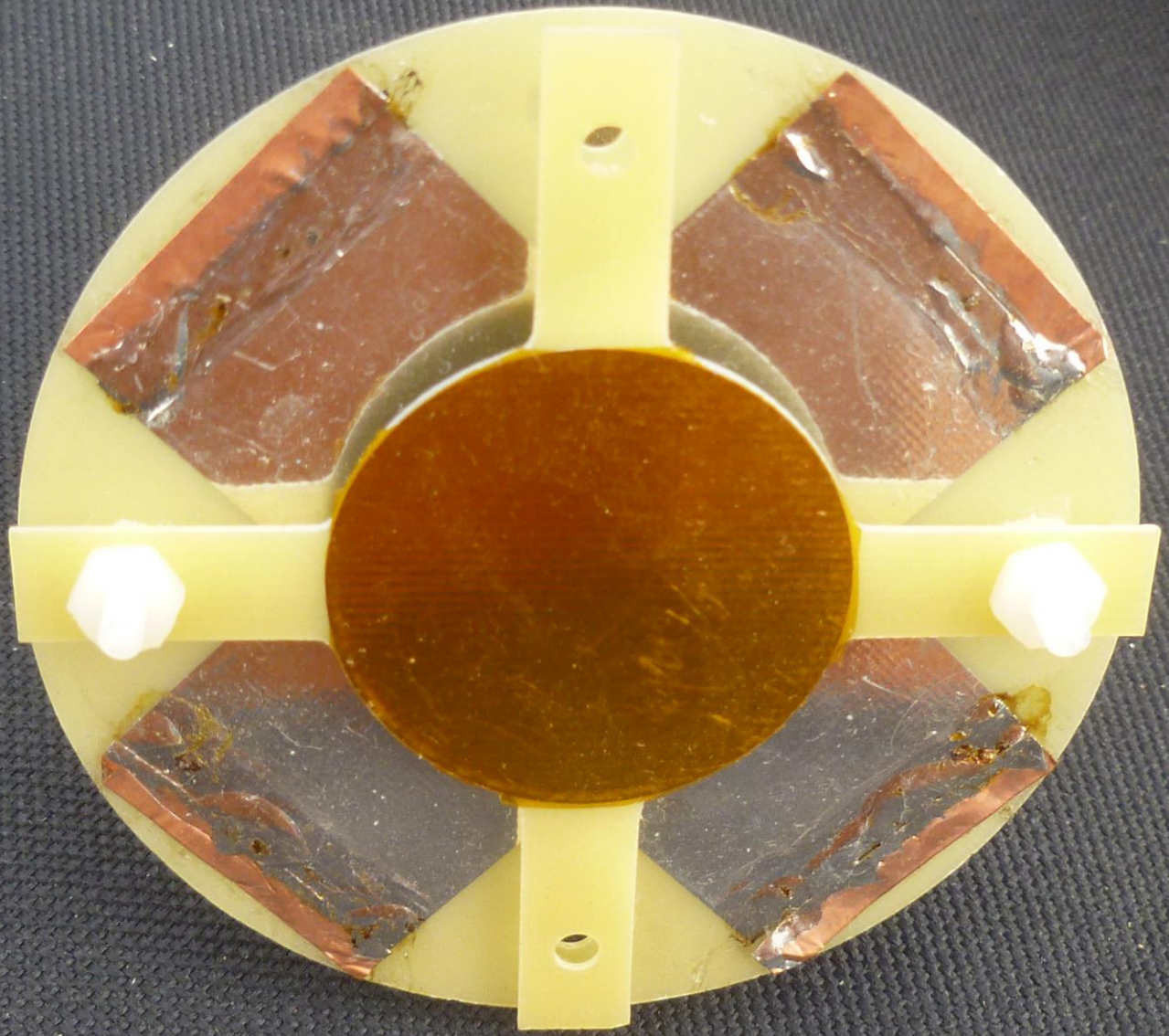

GW
RHCP

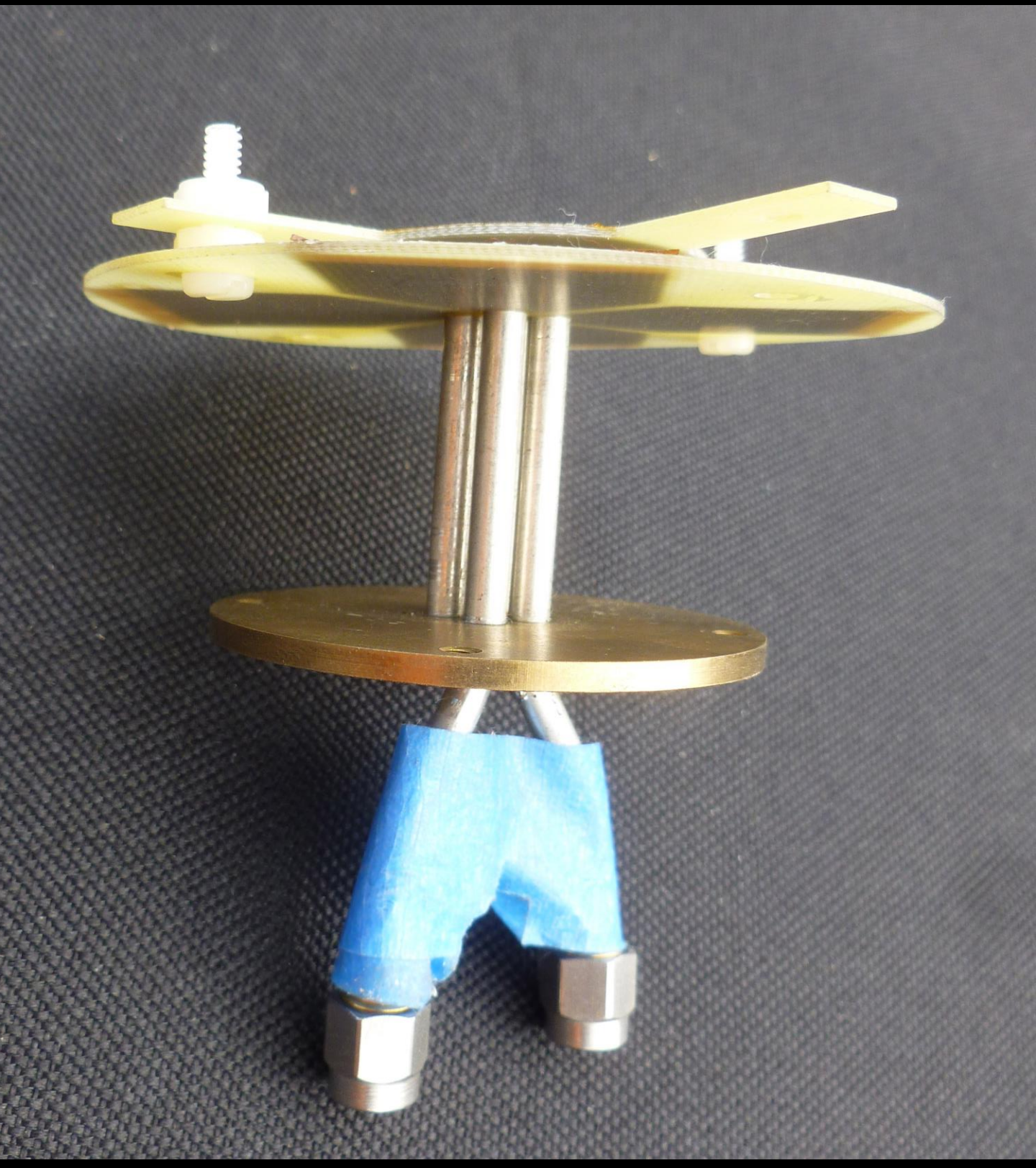

.640
.750"

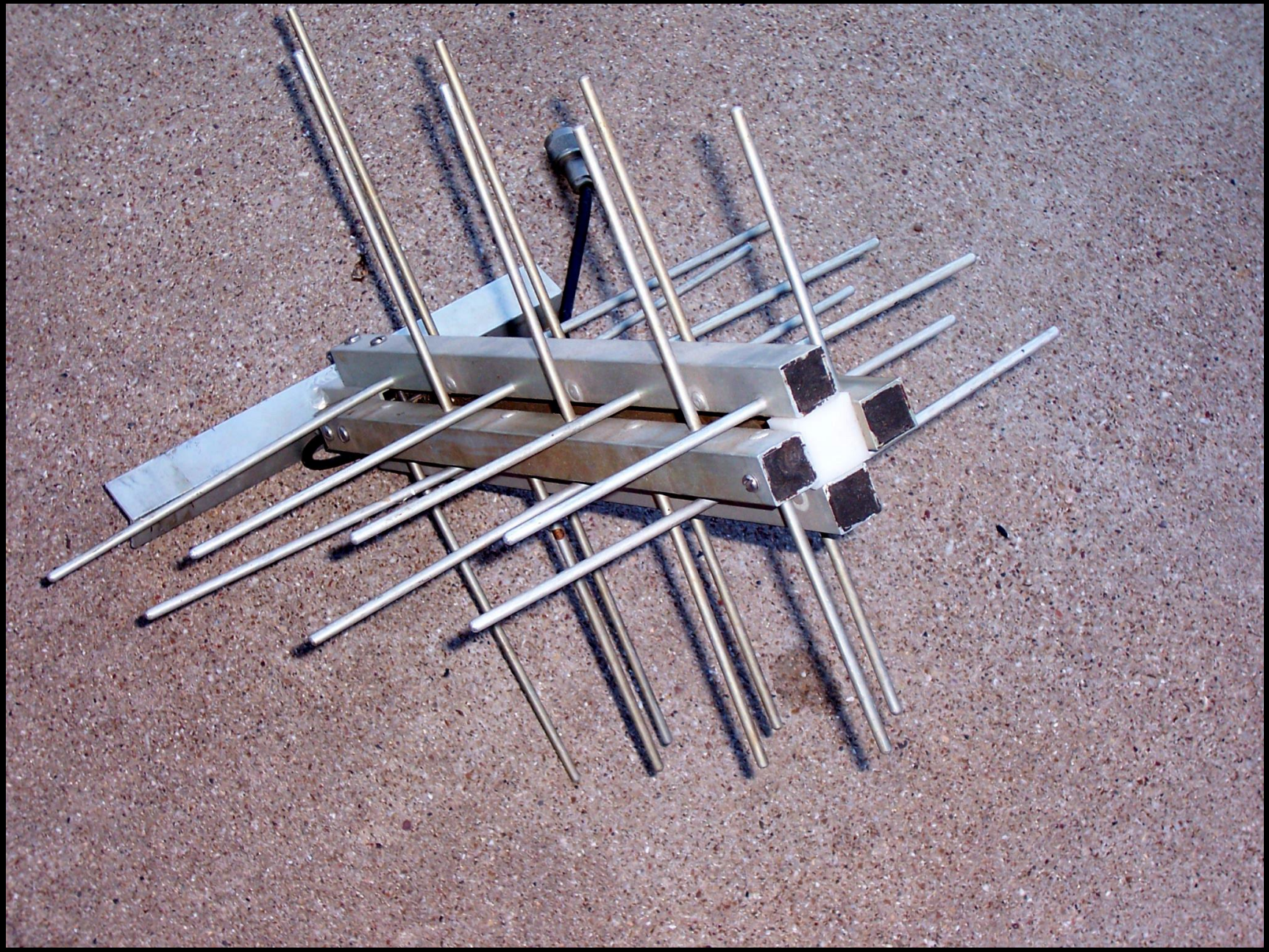


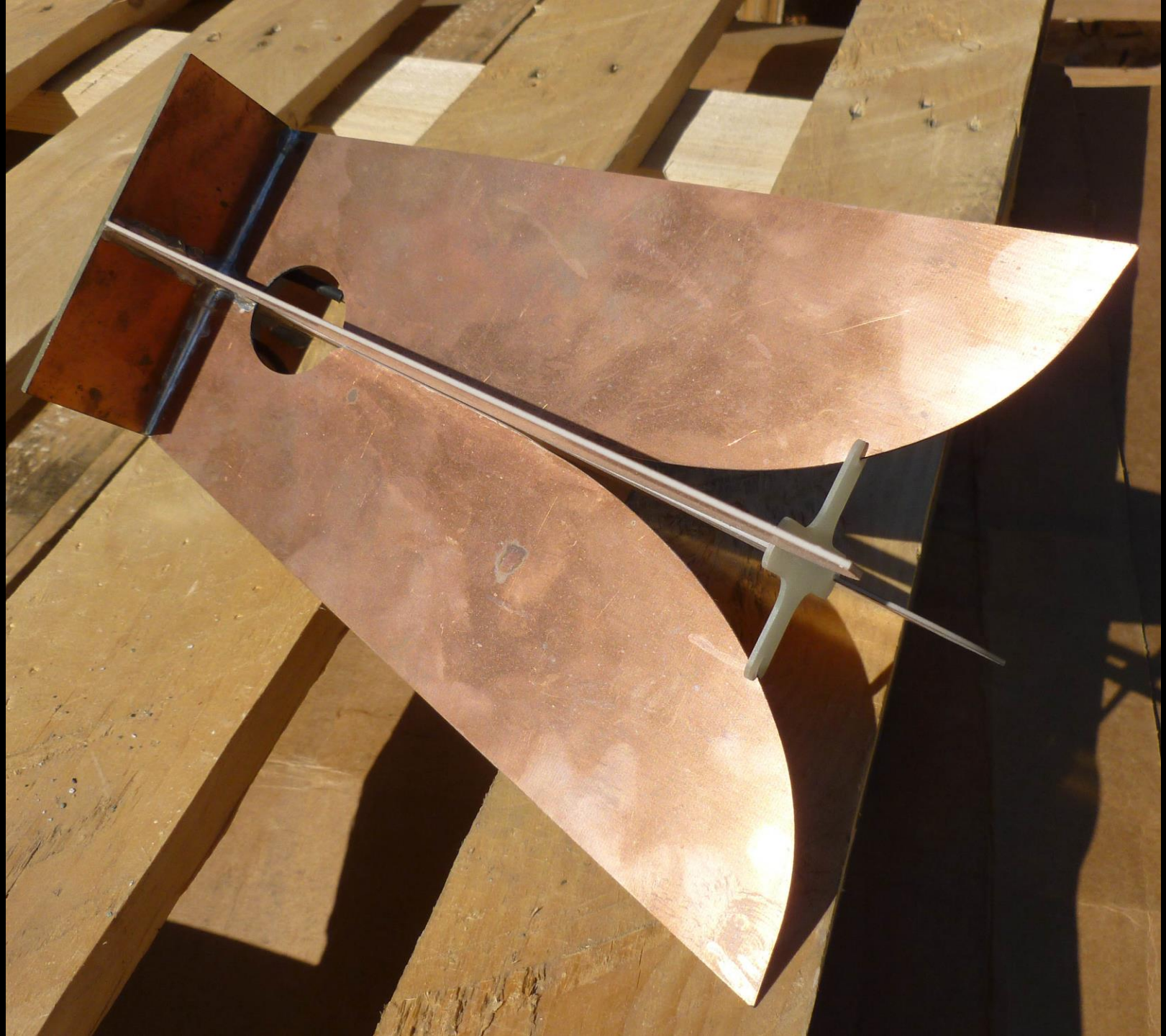

FEEDHORN FOR 24 GHz
USED TO MAKE THE FIRST
JUNE 1974

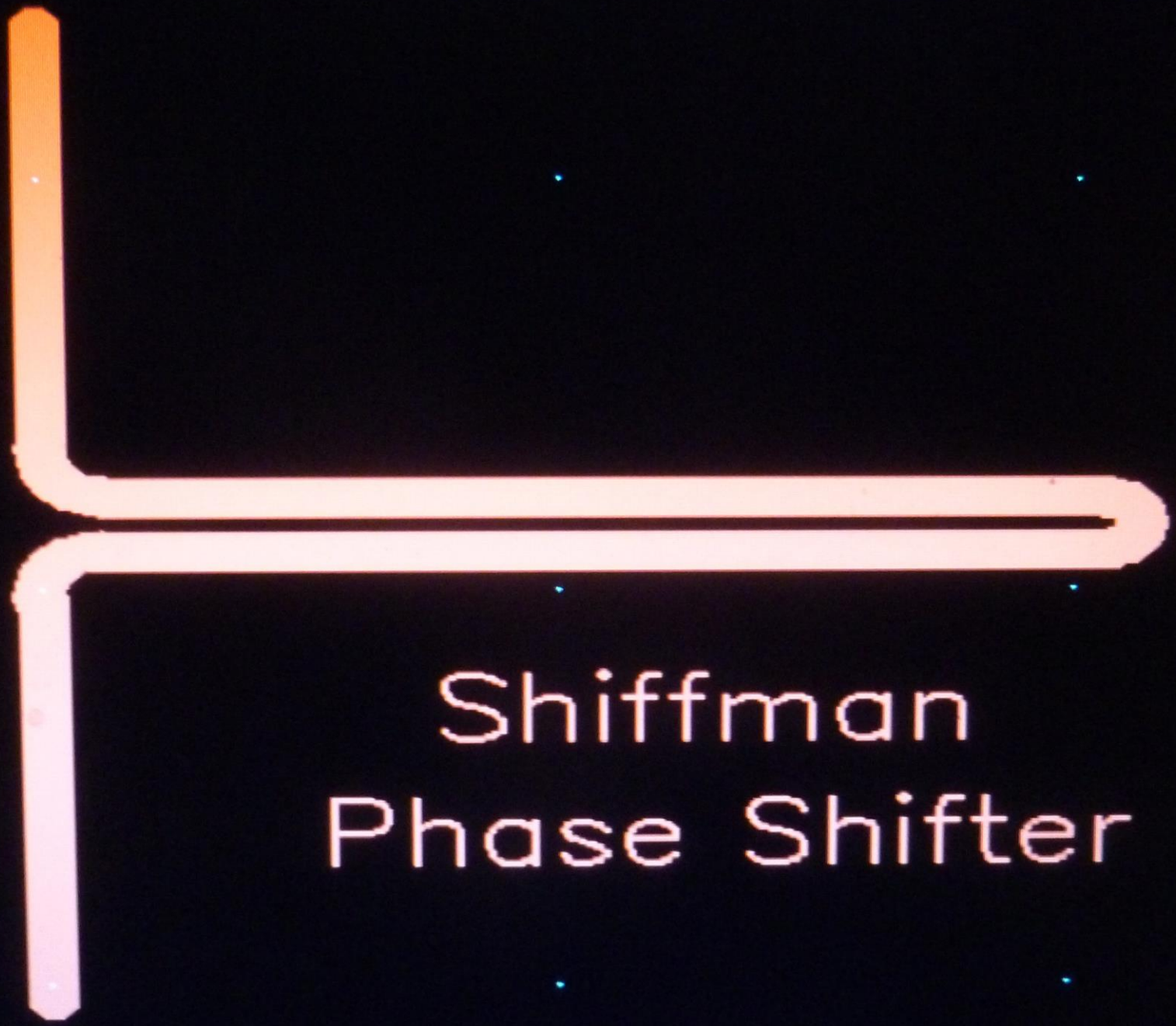


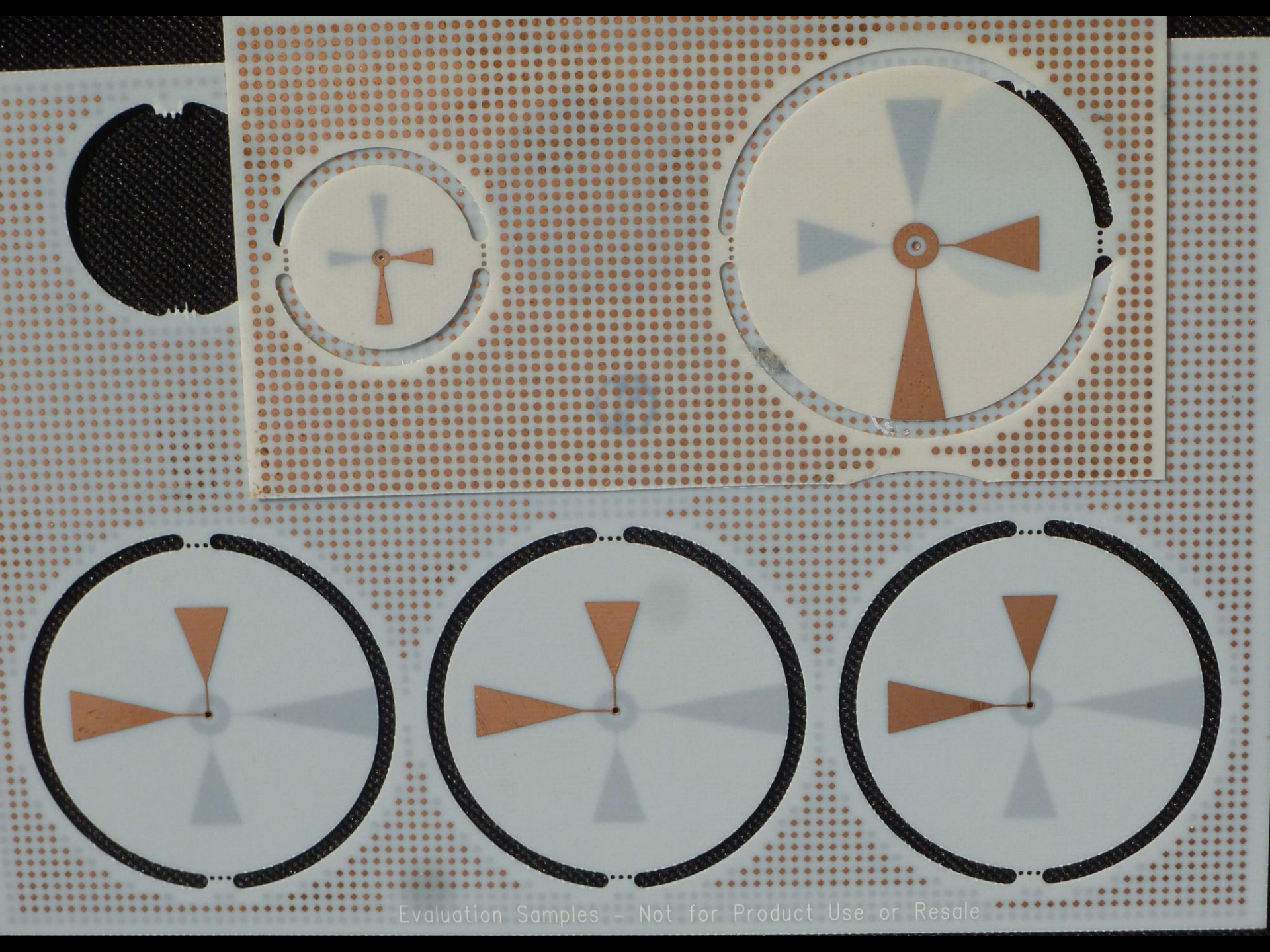


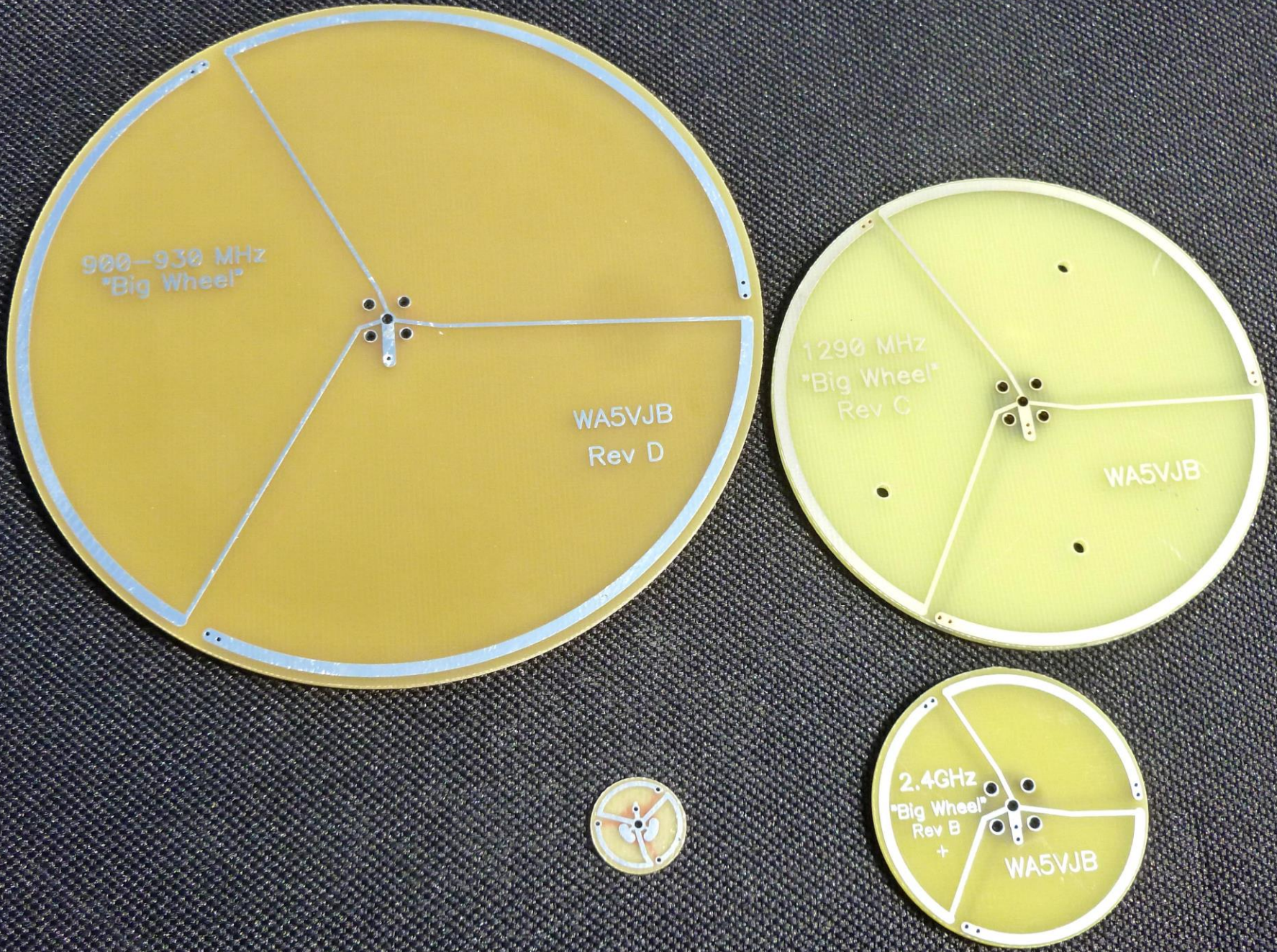







Shiffman
Phase Shifter




900–930 MHz
"Big Wheel"
WA5VJB
Rev D
1290 MHz
"Big Wheel"
Rev C
WA5VJB
2.4GHz
"Big Wheel"
Rev B
+
WA5VJB


Beer
Root Beer
Root Beer
807
(2)