

OGP was used to measure an Argonne National Laboratory CPW MKID

A quarter-wave CPW MKID loaned to us by Argonne National Laboratories was viewed and its dimensions were measured using the OGP (Optical Gaging Products) Video Inspection System.

OGP (Optical Gaging Products) Video Inspection System

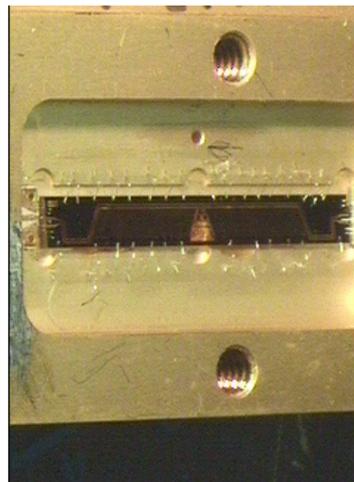
There is one OGP system in Lab D

- Optical CMM (touch probe option)
- Autofocus and motion control
- Computer readout

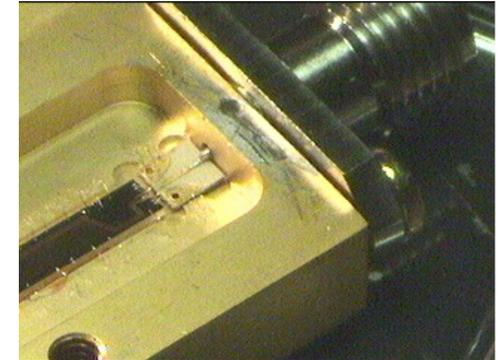
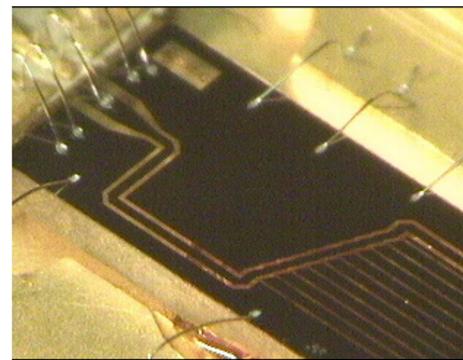


OGP View of quarter-wave MKID

- The MKID is made of 300-nm thick Al on sapphire.
- The box is gold-plated copper.
- GE varnish is used to attach the MKID to the box.
- Wire bonds are made of ~50-um aluminum wire.
- The resonant frequencies are about 6 GHz.



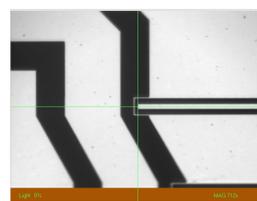
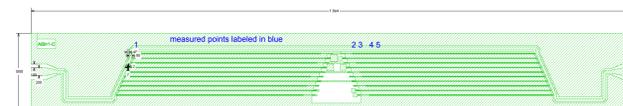
Overall dimensions: 16 mm x 2 mm



Zoom in on input / output

OGP measurements of quarter-wave MKID

- The OGP was used to measure the lengths of each of the 20 resonators.
- Magnification 712x



point 1



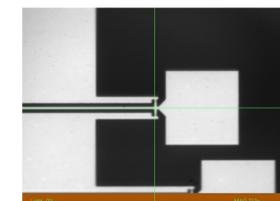
point 2



point 3



point 4



point 5