

THE VERY SMALLEST YET



# AIRPAX A175 MIDGET 60 cycle chopper

wide temperature range

broad frequency range

hermetically sealed

very low noise

long proven life

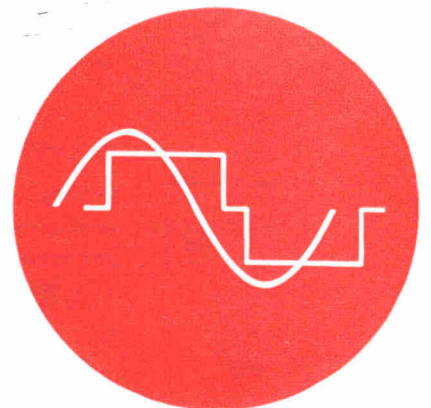
vibration proof

chatter free

shock proof

reliable

rugged



**Phase Angle** at 6.3v, 60 cycles is  $21^\circ \pm 5^\circ$ , at 30 cycles is nominally  $20^\circ$ , at 100 cycles  $26^\circ$ .

**Contacts** are SPDT, break-before-make, and are rated up to 100 volts maximum, 1 ma maximum.

**Dwell Time** is approx.  $170^\circ$ . The nominal value of dwell time changes only slightly from 30 cycles to 100 cycles.

**Coil** demand at 6.3 volts, 60 cycles, is approximately 37 milliamperes, coil resistance approximately 165 ohms D.C.

**Noise** with all 3 contacts at one megohm impedance, and with wide band amplifiers, will have an effective value of 50 microvolts or less. The offset of narrow band amplifiers will be very much less. The specification of noise requires careful definition, users should refer to the detail specifications and bulletin 103.

**Temperature** may be any value from  $-65^\circ\text{C}$  to  $85^\circ\text{C}$ . The nominal phase angle will vary from about 17 degrees at  $-65^\circ\text{C}$  to 25 degrees at  $85^\circ\text{C}$ .

**Vibration** from 10 to 55 cycles will not damage the chopper up to as high as 30 G. At these higher G values there will be some modulation of the phase angle.

**Frequency** of operation may be any value from 25 to 110 cycles, to maintain full performance, balance, etc.

**Humidity** may be any value, except of course for external condensation on the header.

**Shock** values as high as 50G will not damage the chopper.

**Altitude** may be any value, as the unit is hermetically sealed.

