

RG-5074

Miniature, light-weight, precision rate sensor, designed for use in various vehicles, such as missiles, torpedoes, armored vehicles, aircraft and other airborne objects, for applications such as guidance or stabilization of gimbals, seekers and antennas. Adaptable to a wide range of rates, and available in various mounting and packaging options, according to customer requirements and specifications.



Specifications

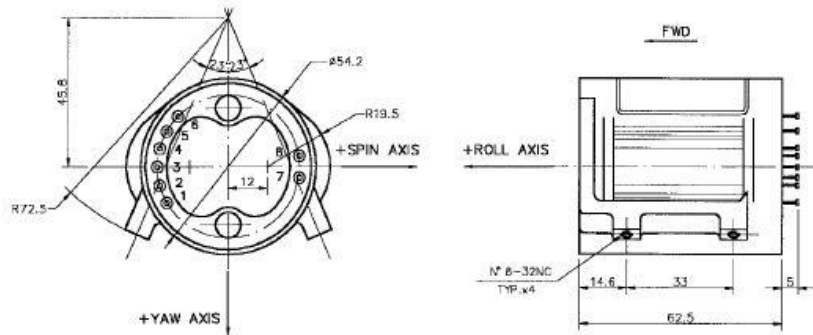
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|-------------------------------|--------------------------|
| Full scale input range, nom | 150 deg/sec |
| Minimum detectable range | < 0.015 deg/sec |
| Non-Linearity | |
| Zero offset at 20°C | 0.18% of FS |
| Mass unbalance max | 0.055 deg/sec/g |
| Hysteresis max | 0.11% of FS |
| Scale factor, nom | 14.7 mvRMS/°/sec |
| Scale factor, variation | 2% |
| Motor supply voltage | 17 V |
| Motor supply frequency | 1250 Hz |
| Pickoff supply voltage | 13 V |
| Pickoff supply frequency | 2700 Hz |
| Total output at null, max | 15 mvRMS |
| Noise 0-160 Hz | 2.5mvRMS |
| Typical damping ratio at 20°C | 0.5-0.9 |
| Un-damped natural frequency | 56-68 Hz |
| Sustained acceleration, max | 36 g |
| Shock, max(2.2 ms half sine) | 86 g |
| Vibration, 100-2000 Hz | 0.135g ² / Hz |
| Operating temp. range | -45°C to +85°C |
| Weight | 85 gr |

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Specifications

| Uncaging & Ready Time | |
|-----------------------|---------------------------|
| Uncage Current | 2.5 Amp. Min. |
| Ready Time | 150 msec |
| Environmental | |
| Temperature | -40° to +85°C |
| Shock | 400 G, 18 msec / all axes |
| Random Vibration | |
| Non-Operating | 15.0 GRMS |
| Operational | 8.2 GRMS |
| Weight | |
| 300 gm | |

Drawing



All dimensions are in mm

For Additional Information

To learn more about the RG-5074 Rate Gyroscope

Or other MTC products,

Contact MTC on **+972 4 998 7772** or email marketing@mtcind.com