

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

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/º/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 20ºC	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	0.135g² / Hz
Operating temp. range	-45ºC to +85ºC
Weight	85 gr

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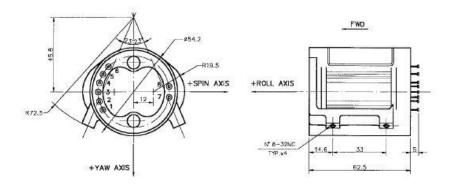


RG-5074

Specifications

Uncaging & Ready Time		
Uncage Current	2.5 Amp. Min.	
Ready Time	150 msec	
Environmental		
Temperature	-40º to +85ºC	
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

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