



# FIBER OPTIC GYROSCOPE VG071PT

DATASHEET

model 2014	- 55°C 0.03 °/√h 45 gram
series 2000	60 x 27 x 35 mm
technology 1990	Open-loop 40 μ fiber Jointless




fundamentally  
1914

**FREE** of

- bias jumps
- $g, g^2$  errors
- dead zones
- cross axis errors
- day-to-day bias errors

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	Unit	Value	Comments
<b>MAIN PARAMETERS</b>			
Input range	°/s	300	for info
Scale factor (SF)	mV/°/s	7	typical
Frequency range	kHz	0...1	2 <sup>nd</sup> order LPF
ARW	°/√h	0.03	white noise PSD
Bias, RMS	°/h	3	Allan variance min day-to-day
SF, RMS	%	0.02	day-to-day
Start-up	s	< 0.03	90% of SF
Powering	W	0.5	+5V
<b>PHYSICAL PARAMETERS</b>			
Dimensions	mm	60 x 27 x 35	ISO 2768-m tolerance
Weight	gram	45	approx.
Volume	cl	6	
Housing material		hard plastic	
Ingress protection class		IP67	
<b>ENVIRONMENT</b>			
Operating temperature	°C	-55...+70	built-in sensor
Endurance temperature	°C	-60...+85	> 2 h, non -operating
Vibration, RMS	g	12	20 Hz... 2000 Hz
Shocks	g	350	1 ms half-sine
<b>RELIABILITY</b>			
MTBF	h	60 000	humidity conditions applied
Lifetime	yr	15	

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