



# FIBER OPTIC GYROSCOPE VG091B

DATASHEET

model 2011	Axis orientation 35 gram 0.04 °/vh
series 1994	Dia 1"
technology 1990	Open-loop 40μ fiber Jointless
fundamentally 1914	<div>FREE of</div> <div>bias jumps g, g<sup>2</sup> errors dead zones cross axis errors day-to-day bias errors</div> <div></div>
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	Unit	Value	Comments
MAIN PARAMETERS			
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	0.04	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
PHYSICAL PARAMETERS			
Dimensions	mm	ø28x52	ISO 2768-m tolerance
Weight	gram	35	approx.
Volume	cl	3.1	
Housing material		aluminum alloy	anodizing
Ingress protection class		IP67	
ENVIRONMENT			
Operating temperature	°C	-40...+70	built-in sensor TMP-36
Endurance temperature	°C	-55...+85	> 2 h, non -operating
Vibration, RMS	g	18	20 Hz... 2000 Hz
Shocks	g	350	1 ms half-sine
RELIABILITY			
MTBF	h	100 000	humidity conditions applied
Lifetime	yr	15	

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