



FIBER OPTIC GYROSCOPE VG103PT

DATASHEET

model 2010	0.02 °/vh 60 gram
series 2000	Dia 60 mm
technology 1990	Open-loop 40 μ fiber Jointless
fundamentally 1914	FREE of

bias jumps
g, g² errors
dead zones
cross axis errors
day-to-day bias errors

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	Unit	Value	Comments
MAIN PARAMETERS			
Input range	°/s	350	for info
Scale factor (SF)	mV/°/s	6	typical
Frequency range	kHz	0...1	2 nd order LPF
ARW	°/√h	0.02	white noise PSD
Bias, RMS	°/h	1	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	63 x 63 x 22	ISO 2768-m tolerance
Weight	gram	60	approx.
Volume	cl	7	
Housing material		hard plastic	
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	750	1 ms half-sine
RELIABILITY			
MTBF	h	100 000	humidity conditions applied
Lifetime	yr	15	

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