



FIBER OPTIC GYROSCOPE VG910F-T85

DATASHEET

model 2015	+85 °C 1 °/h 0.03 °/h
series 1990	Dia 80 mm
technology 1990	Open-loop 40μ 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
MAIN PARAMETERS			
Input range	°/s	350	for info
Scale factor (SF)	mV/°/s	7	typical
Frequency range	kHz	0...1	3 rd order LPF
ARW	°/√h	0.03	white noise PSD
Bias, RMS	°/h	1	Allan variance min day-to-day
SF, RMS	%	0.01	day-to-day
Start-up	s	< 0.05	90% of SF
Powering	W	0.5	+5V
PHYSICAL PARAMETERS			
Dimensions	mm	82 x 82 x 20	ISO 2768-m tolerance
Weight	gram	120	Approx.
Volume	cl	10	
Housing material		aluminum alloy	anodizing
Ingress protection class		IP67	
ENVIRONMENT			
Operating temperature	°C	-40...+70 +70...+85	built-in sensor > 2 h
Endurance temperature	°C	-55...+85	> 2 h, non -operating
Vibration, RMS	g	12	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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