

FIBER OPTIC GYROSCOPE VG910F1

_ 95 000 h MTE	Super reliable. 10 year MTBF. The first FOG qualified for advanced civilian aircraft. Mass production.			
ທ 0.7 Watt ປິດ 45ms ON ອີ່ Single-ended	Extra robust design. High stability and reliability. Exceptional performance in harsh mechanical and temperature environments. Quick start-up.			
Open-loop O 0 0 40μ fiber U Jointless	100m of unique 40 μ optical fiber. Specific 0.8 μ SLD chip. Fizoptika spliceless assembling with ZERO excess loss. Advanced analog electronics with built-in bias calibration. Unrivalled performance and reliability.			
fundamentally 1914 REE of	bias jumps g, g ² errors dead zones cross axis errors day-to-day bias errors			

	Unit	Value	Comments
MAIN PARAMETERS			
Input range	deg/s	350	For info
Scale factor (SF)	mV/deg/s	7	Tolerance 15%, -0.05% /°C
Frequency range	kHz	01	3 ^d order LPF
Angle random walk (ARW)	deg/√h	0.02	White noise PSD
Bias stability, RMS	deg/h	1	Min of Allan variance
Bias repeatability, RMS	deg/h	1	day-to-day, 5 min warm-up
SF stability, RMS	%	0.003	5 min warm-up
SF repeatability, RMS	%	0.01	day-to-day, 5 min warm-up
Start-up time	ms	< 50	90% of SF
Power	Vdc	+5	+/- 0.2V, 0.1A
PHYSICAL PARAMETERS			
Dimensions	mm	82 x 82 x 20	ISO 2768-m tolerance
Dissipation	W	0.5	Varies with temperature
Weight	gram	155	Approx.
Volume	cl	10	
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	ambient, nonoperating, < 2 h
Vibration, RMS	g	18	20 Hz 2000 Hz
Shocks	g	450	3 ms half-sine
RELIABILITY			
MTBF	h	95 000	Humidity conditions applied
Lifetime	yr	15	