



FIBER OPTIC GYROSCOPES

VG1703 SERIES

Main parameters

PERFORMANCE	VG1703	S	SPE	D / D-MS
Input range (°/s)	130	160	300	250
Bias stability / Bias repeatability (RMS, °/h)	1	1	3	1
Angle random walk (°/√h)	0.008	0.01	0.025	0.008
Bandwidth (kHz)	1	1	1	1
SF stability / SF repeatability (RMS, %)	0.02	0.02	0.02	0.02
Magnetic response (°/h/Gauss)	3	3	3	3 / 0.1
ELECTRICAL INTERFACE				
Start-up (s)	0.03	0.03	0.03	0.03
Powering (W)	0.5	0.5	0.25	0.5
Data rate (kHz)	-	-	-	8
Baud rate (kBd)	-	-	-	921.6
PHYSICAL PARAMETERS				
Dimensions (mm)	Ø40x19	Ø40x12	Ø40x12	Ø38x17 / Ø40x19
Weight (gram)	35	20	18	30 / 55
Volume (cl)	2.4	1.5	1.5	2.4
Housing material	Al alloy	Al alloy	Al alloy & plastic	Al / µ-metal
ENVIRONMENT				
Operating temperature (°C)	-40...+70	-40...+70	-40...+70	-40...+70
Endurance temperature (> 2 h, °C)	-55...+85	-55...+85	-55...+85	-55...+85
Vibration (RMS, 0.02 - 2 kHz, g)	30	12	12	18
Shocks (g, 1 ms)	1 200	350	350	750
RELIABILITY				
MTBF / Lifetime (yrs)*	15	15	30	15

* Humidity conditions applied