



## FIBER OPTIC GYROSCOPES

### VG103 SERIES

#### Main parameters

PERFORMANCE	VG103PT	VG103LN	VG103E	VG103D	VG103LND
Input range (°/s)	350	170	350	350	170
Bias stability / Bias repeatability (RMS, °/h)	1	1	1	1	1
Angle random walk (°/√h)	0.02	0.01	0.02	0.02	0.01
Bandwidth (kHz)	1	1	1	0.3 (default) / 1	0.3 (default) / 1
SF stability / SF repeatability (RMS, %)	0.02	0.02	0.02	0.02	0.02
<b>ELECTRICAL PARAMETERS</b>					
Start-up (s)	0.03	0.03	0.03	1	1
Powering (W)	0.5	0.5	0.5	0.8	0.8
Data rate (kHz)	-	-	-	1.2 (default) / 4.8	1.2 (default) / 4.8
Baud rate (kBd)	-	-	-	115 / 921	115 / 921
<b>PHYSICAL PARAMETERS</b>					
Dimensions (mm)	63x63x22	63x63x22	63x63x22	63x63x22	63x63x22
Weight (gram)	60	60	60	60	60
Volume (cl)	7	7	7	7	7
Housing material	plastic	plastic	plastic	plastic	plastic
<b>ENVIRONMENT</b>					
Temperature (operating, °C)	-40...+70	-40...+70	-40...+70	-40...+70	-40...+70
Temperature (endurance, 2 h, °C)	-55...+85	-55...+85	-55...+85	-55...+85	-55...+85
Vibration (RMS, 0.02 - 2 kHz, g)	18	18	18	12	12
Shocks (g, 1 ms)	750	750	350	350	350
<b>RELIABILITY</b>					
MTBF (20°C) / Lifetime (yrs)*	15	15	10	15	15

\* Humidity conditions applied