



FOG INERTIAL MEASUREMENT UNIT

U181 / U181M



PROVISIONAL DATASHEET

PHYSICAL PARAMETERS

Dimensions	mm	Ø46 x 111	ISO 2768-m
Weight	gram	200 / 285	
Frame resonance	kHz	> 1.5	estimated
Housing		Al alloy / μ-metal	

GYROS PERFORMANCE

Input range	°/s	300	for info
Bias, RMS	°/h	1	Allan variance min
ARW	°/√h	0.025	white noise PSD
Bandwidth	kHz	1	output LPF filter
Magnetic response	°/h/Gauss	3 / 0.1	typical

ACCELEROMETERS PERFORMANCE

default sensor - AD22293 (Analog Device)

ELECTRICAL INTERFACE

Initialization	s	0.25	
Powering	W	1.5	+5V
Data rate	kHz	4.8	
Baud rate	kBd	920	RS422, asynchronous

ENVIRONMENT

Operating temperature	°C	-40...+70	
Endurance temperature	°C	-55...+85	> 2 h, non-operating
Vibration, RMS	g	6	20 Hz... 2000 Hz
Shocks	g	750	1 ms half-sine

RELIABILITY

MTBF / Lifetime	yr	5	humidity conditions applied
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