

ADIS1646x Generic Data Sheet Specification Changes

Current Data Sheet Specifications

Specification	Variant	Typ	Units
Angular Random Walk	-3	0.3	deg/rt-Hr
Bias Repeatability	-1	0.4	deg/sec
Bias Repeatability	-2	0.4	deg/sec
Bias Repeatability	-3	0.4	deg/sec
Rate Noise Density, X	-1	3	mdeg/sec/rt-Hz
Rate Noise Density, X	-2	3	mdeg/sec/rt-Hz
Rate Noise Density, Y/Z	-2	3	mdeg/sec/rt-Hz
Rate Noise Density, X	-3	7	mdeg/sec/rt-Hz
Rate Noise Density, Y/Z	-3	7	mdeg/sec/rt-Hz
Output Noise, X	-1	70	mdeg/sec RMS
Output Noise, X	-2	80	mdeg/sec RMS
Output Noise, X	-3	170	mdeg/sec RMS
Output Noise, Y/Z	-3	170	mdeg/sec RMS

New Data Sheet Specifications

Specification	Variant	Typ	Units
Angular Random Walk	-3	0.26	deg/rt-Hr
Bias Repeatability	-1	0.2	deg/sec
Bias Repeatability	-2	0.2	deg/sec
Bias Repeatability	-3	0.3	deg/sec
Rate Noise Density, X	-1	2	mdeg/sec/rt-Hz
Rate Noise Density, X	-2	2	mdeg/sec/rt-Hz
Rate Noise Density, Y/Z	-2	3.2	mdeg/sec/rt-Hz
Rate Noise Density, X	-3	4	mdeg/sec/rt-Hz
Rate Noise Density, Y/Z	-3	6.5	mdeg/sec/rt-Hz
Output Noise, X	-1	50	mdeg/sec RMS
Output Noise, X	-2	50	mdeg/sec RMS
Output Noise, X	-3	110	mdeg/sec RMS
Output Noise, Y/Z	-3	160	mdeg/sec RMS

Legend

Improvement

Degradation

No Change

**Qualification Results Summary of ADIS1646x Generic:
Gyroscope Revised Silicon and Data Sheet Changes**

QUALIFICATION RESULTS			
Test	Specification	Sample Size	Results
High Temperature Operating Life (HTOL)	JEDEC JESD22-A108, 500 hours, 110°C	16	Pass
Temperature Cycling (TC)	JEDEC JESD22-A104 500 cycles, -40°C to 105°C	16	Pass