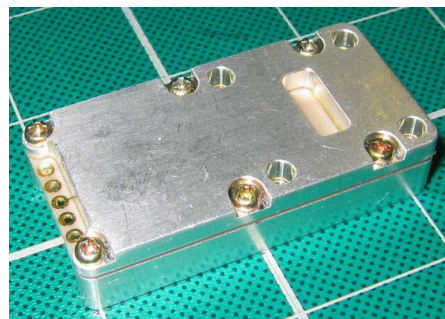


K-band (24GHz) Doppler Sensor Module [Single Type]

MODEL NO. 4251 / 51J

<Features>

- * DRO (Dielectric Resonator Oscillator) for 24GHz direct oscillation
- * Small size : 44.3 mm x 22.1 mm x 9.4 mm
- * Low Power Consumption : 50 mA max. @+5V DC
- * Flexibility of selection for Antenna (Horn and patch antenna)



<Line-Up>

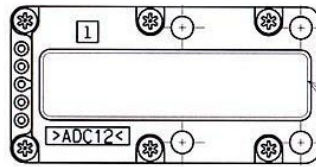
Model No.	Center Frequency	Output Power	Operating Voltage	Operation	Region
4251	24.15GHz 24.11 GHz (Option) *	7 mW	+5 Vdc	CW / Pulse	All regions except Japan
4251J	24.15GHz 24.11 GHz (Option) *				Japan

* According to the regulation for each region, the change to the other frequency within 24GHz range is available.

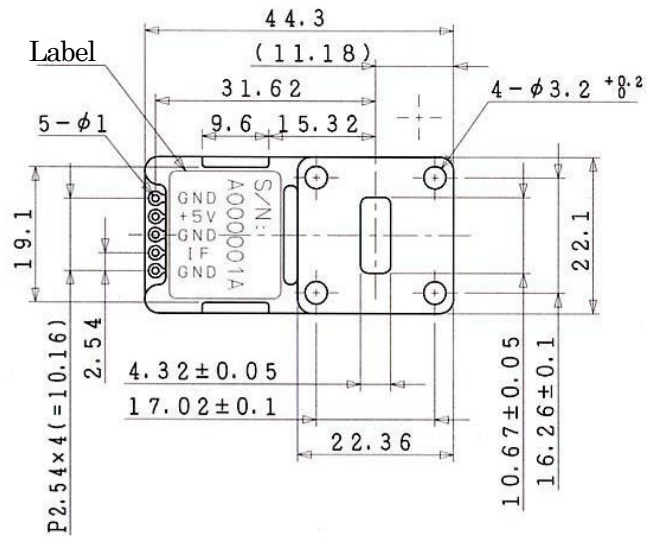
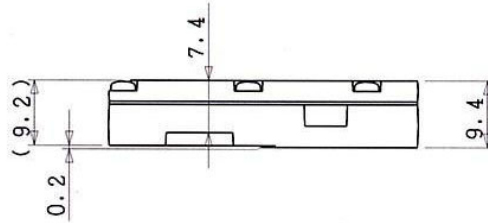
<Specifications>

#	Item	Specification
Electrical Characteristics (at +25°C, +5VDC)		
1.	Operating Voltage	5.0±0.2 Vdc
2.	Operating Current	50 mA typ.
3.	Frequency Stability	±5 MHz max. (-30 to +60°C)
4.	Output Power	+7 mW typ.
5.	Return Loss Sensitivity	-80dBc typ.
6.	Second Harmonic Emission	1 μW max. [Model: 4251] 2.5 μW max. [Model : 4251J]
Absolute Maximum Ratings		
1.	DC Input Voltage	+7 Vdc
2.	Operating Temperature Range	-30 to +60°C
3.	Storage Temperature Range	-40 to +80°C
4.	Relative Humidity	95 % at 35°C
5.	Vibration	G=10 (f=30,50 Hz, t=10min., Direction; X, Y, Z)
6.	Shock	G=20 (Half Sine, 10msec., Direction; X, Y, Z)
Regulation		
1.	Regulation for compliance	ETS 300 440 / FCC Part 15 [Model: 4251] Japanese Radio Law [Model : 4251J]

<Outline Drawing>



Label



Unit: mm