

K-band Doppler Sensor Module

MODEL NO. 4211 / 11J



<Description>

This specification covers the general requirements for K-band microwave doppler module.

This module is designed for motion sensing applications.

It consists of Gunn Diode for transmitting 24GHz signal and SBD for detecting the signal after reflecting the moving objects and human.

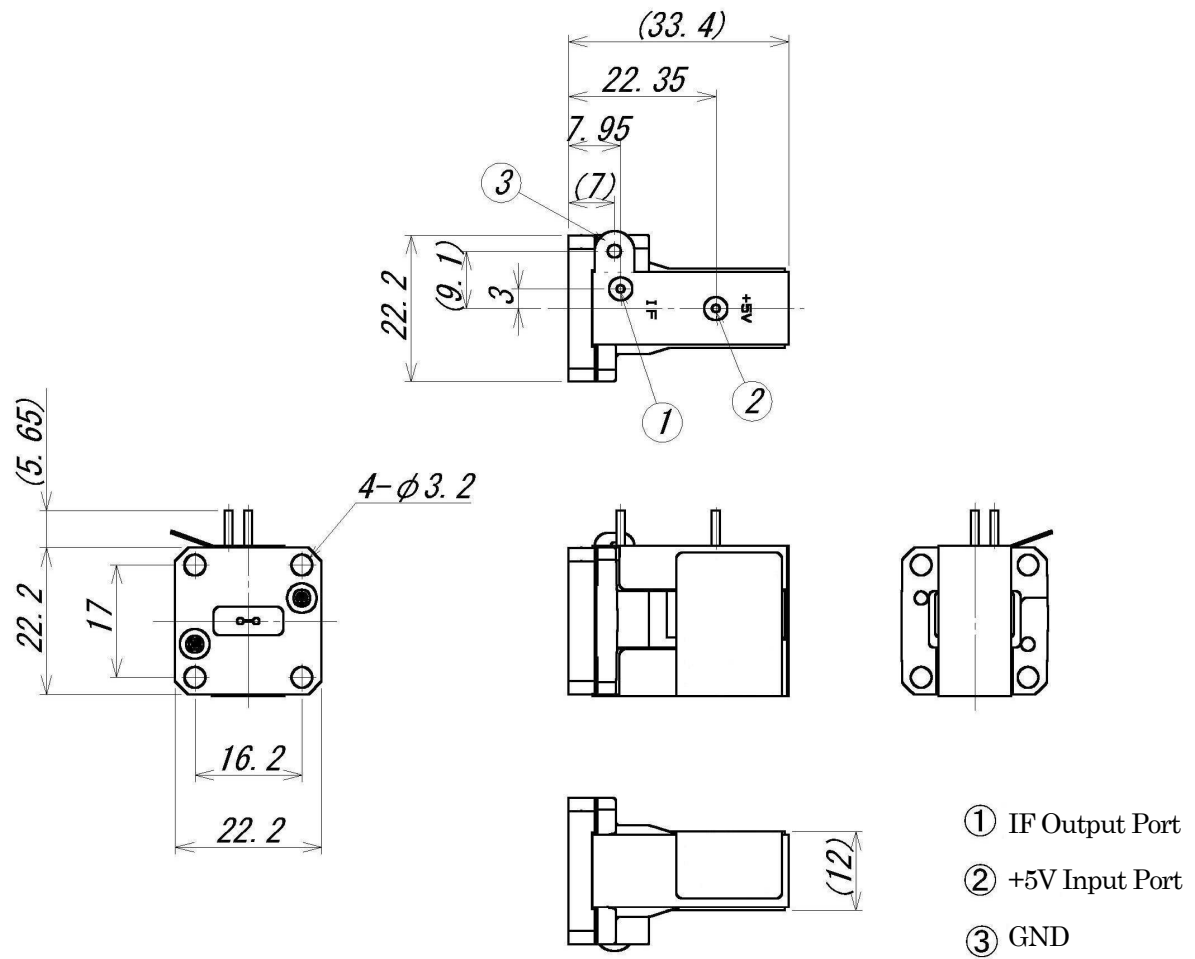
<Line-Up>

Model No.	Center Frequency	Output Power	Operating Voltage	Operation	Region
4211	24.15 GHz 24.11 GHz (option)	4 mW	+5 Vdc	CW	All regions
4211J	24.15 GHz 24.11 GHz (option)				Japan

<Specifications>

#	Item	Specification
Electrical Characteristics (at +25°C, +5VDC)		
1.	Operating Voltage	5.0 ± 0.2 Vdc
2.	Operating Current	130 mA max.
3.	Frequency Stability	-1.0 MHz / degree C max. (-20 to +60°C)
4.	Output Power	+4 mW typ.
5.	Return Loss Sensitivity	-90dBc typ.
6.	Second Harmonic Emission	2.5μW max. [Model : 4211J] < 25 mV/m (at 3m) [Model : 4211]
Absolute Maximum Ratings		
1.	DC Input Voltage	+7 Vdc
2.	Operating Temperature Range	-20 to +60°C
3.	Storage Temperature Range	-30 to +70°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	Japanese Radio Law [Model : 4211J] FCC Part 15 [Model : 4211]

<Outline Drawing>



* This is the outline drawing for Japanese Radio Law.