

# OMRON

## D6F MEMS Flow Sensor

## D6F

High accuracy mass flow sensing

- Small size
- Fast response
- Applicable to air, non-corrosive gas, LNG



## Ordering Information

Model	Case	Gsa	Flow Range	Notes
D6F-01A1-110	PPS	Air*	0-1L/min	Integral orifice
D6F-02A1-110			0-2L/min	
D6F-05N2-000	Aluminum	LNG* (13A)	0-5L/min	

## Application Examples

- Medical equipment
- Analysis apparatus
- Combustion control

## Ratings

### Absolute Maximum Rating

Item	Symbol	Rating	Unit
Power Supply	$V_{CC}$	26.4	VDC
Output Voltage	$V_{OUT}$	6	VDC

### Recommendation Condition

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Power Supply	$V_{CC}$	—	10.8	—	26.4	VDC
Operating Temperature	$T_{ORR}$	—	-10	—	60	°C
Output Voltage (Max.)	$V_{OH}$	$V_{CC} = 12 \text{ to } 24\text{VDC}$ $I_{OH} = 5\text{mA}$	5	—	5.7	VDC
Output Voltage (Min.)	$V_{OL}$	$V_{CC} = 12 \text{ to } 24\text{VDC}$ $I_{OH} = -5\text{mA}$	0	—	1	VDC

## Characteristics

Model	D6F-01A1-110	D6F-02A1-110	D6F-05N2-000
Rated quality range	0-1L/min		0-5L/min
Joint type	Bamboo type (Bamboo min. external diameter: 7.4mm, Bamboo max. external diameter: 8.6mm) (passage diameter: 4mm)		Rc 1/4 Screw
Case material	PPS		Aluminum
Applicable fluid	Air*		LNG*
Withstand pressure	200kPa		
Repeat accuracy	±3% F.S. max		
Operating temperature	-10 to 60 degrees (with no icing or condensation)		
Operating humidity	Under 85% RH (with no icing or condensation)		
Storage temperature	-40 to 80 degrees (with no icing or condensation)		
Storage humidity	Under 85% RH (with no ice or no dew)		
Output signal	Analog Output 1-5 VDC		
Current consumption	No-load V <sub>CC</sub> = 12 to 24VDC, V <sub>SS</sub> = 0V 25 deg. C, Max. 15mA		
Insulation resistance	More than 20M Ohm (500VDC, between lead terminal and case)		
Dielectric strength	500VAC, 50/60Hz, for 1 minute. (Leakage current typ < 1mA.) Between the lead terminals and the base		
Orifice	Integral	Integral	Not applicable

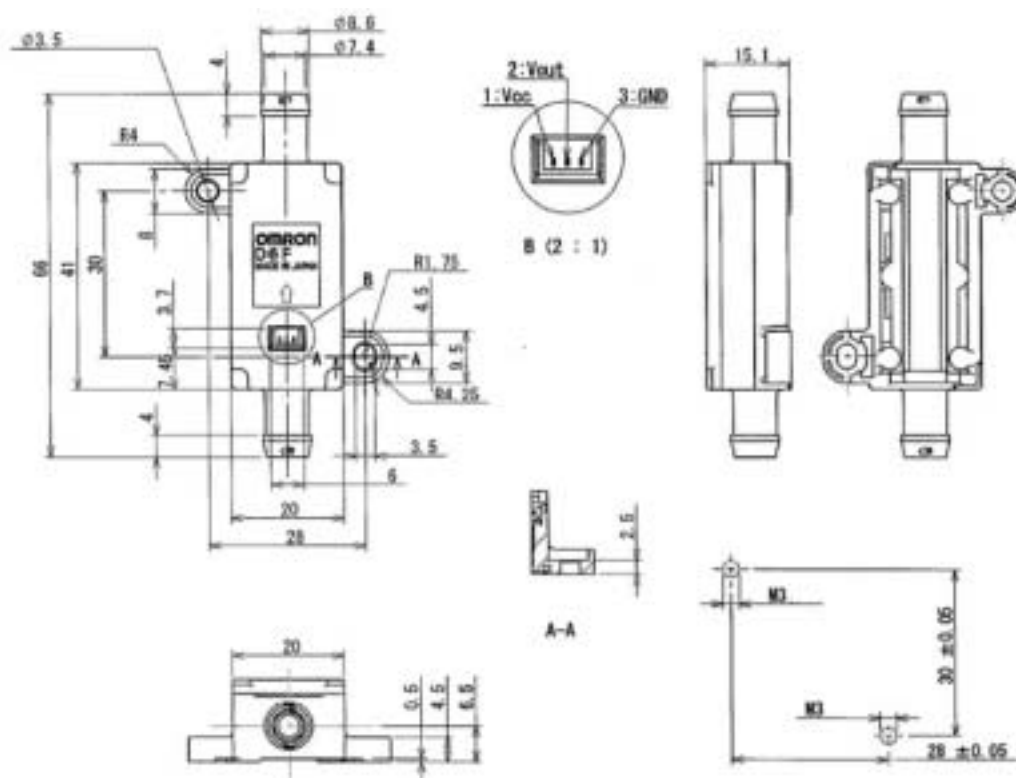
\* Dry gas, must not contain large particles, eg dust, oil mist.

## Dimensions

(All dimensions in mm)

**D6F-01A-110**

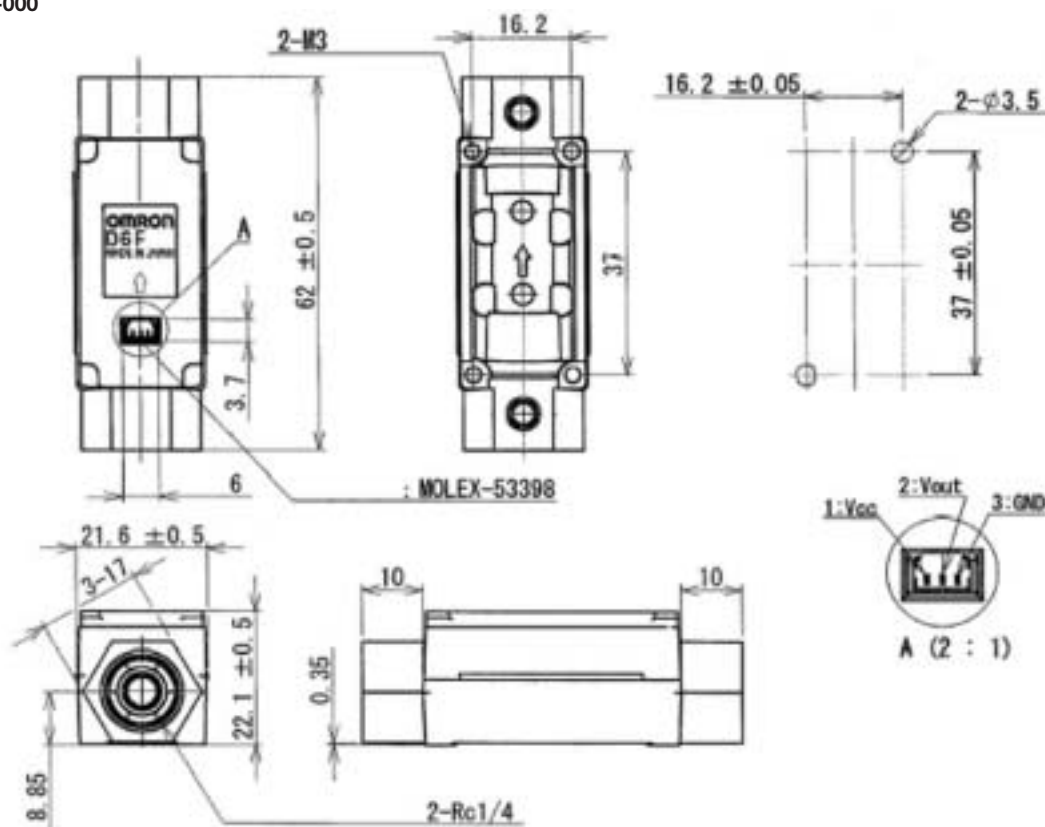
D6F-02A-110



## Dimensions

(All dimensions in mm)

D6F-05N2-000



Cat. No. D6F-01-EU In the interest of product improvement, specifications are subject to change without notice.

# OMRON

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