

## AVI-F: HIGH PRECISION OUTPUT I/F CONVERSION CIRCUIT



### ■ PRODUCT DESCRIPTION

The AVI-F-series I/F conversion module is a temperature compensated high-precision current/frequency converter, which adopts a charge integration method and can continuously convert the current signals of three accelerometers simultaneously. The output of the I/F converter includes a pulse output mode, and also adds the function of timing the serial port 422 to send the accumulated number of pulses. The components used in this series of products are all 100% domestically produced, with a range of up to  $\pm 42\text{mA}$ .

### ■ PRODUCT MAIN SPECIFICATION

Specification	Test conditions	Minimum	Typical	Maximum	Unit
Maximum output frequency	Full temperature	-	-	256	kHz
Zero position $F_0$	Full temperature	0	-	10	nA
Zero stability	Full temperature	-	-	5	ppm
Scale factor temperature coefficient	Full temperature	-	-	1	ppm/°C
Scale factor asymmetry	$I = \pm 1\text{mA}$ , $T_C = 25^\circ\text{C}$	0	10	20	ppm
Scale factor comprehensive nonlinearity	Full temperature range $1\text{mA} \leq  I  \leq \text{FS}$	-	15	20	ppm
Small signal error	$0.01\mu\text{A} \leq  I  \leq 1\text{mA}$	-	-	0.2	Hz
Stability during one power on	$I = \pm 1\text{mA}$ , $T_C = 25^\circ\text{C}$	-	3	5	ppm
Repeatability of successive power on	$I = \pm 1\text{mA}$ , $T_C = 25^\circ\text{C}$	-	5	7	ppm
Working temperature range $T_C$		-45		70	°C
Product dimension	108*60*15				mm
Interface form	J30JZ/LN51ZKWA000				

### ■ PRODUCT DIMENSION

Size: 108.8\*60\*15mm

