

Specifications		SA-604F2	SA-605F2	SA-606F2	SA-607F2	SA-608F2 <i>New</i>
INPUT SECTION	Input form	DC coupling, unbalanced single-ended input, SMA connector				
	Maximum input current *1	±1 μA	±100 nA	±10 nA	±1 nA	±100 pA
	Input impedance *1	1 kΩ (typ.)	3 kΩ (typ.)	10 kΩ (typ.)	30 kΩ (typ.)	100 kΩ (typ.)
	Recommended signal source resistance	1 MΩ or more	10 MΩ or more	100 MΩ or more	1 GΩ or more	10 GΩ or more
	Input bias current *2	1 pA (typ.)				0.1 pA (typ.)
	Equivalent input current noise density *3	45 fA/√Hz (typ.)	15 fA/√Hz (typ.)	6 fA/√Hz (typ.)	2.5 fA/√Hz (typ.)	0.6 fA/√Hz (typ.)
OUTPUT SECTION	Output form	DC coupling, unbalanced single-ended input, SMA connector				
	Maximum output voltage *1	±10 V				
	Maximum output current *1	±5 mA				
	Output impedance *1	50 Ω ±10%				
	Output offset voltage *4	±3 mV		±5 mV	±15 mV	
	Output offset voltage adjustment range	±15 mV (typ.)			±20 mV (typ.)	
AMPLIFIER SECTION	Gain *5	1×10 ⁷ (10 M) V/A ±1%	1×10 ⁸ (100 M) V/A ±1%	1×10 ⁹ (1 G) V/A ±1%	1×10 ¹⁰ (10 G) V/A ±1%	1×10 ¹¹ (100 G) V/A ±3%
	Gain flatness (within ±0.5 dB) *6*7	DC to 50 kHz	DC to 25 kHz	DC to 10 kHz	DC to 2 kHz	DC to 200 Hz
	Frequency response (Cs=10 pF) *6*7*8	DC to 500 kHz	DC to 250 kHz	DC to 100 kHz	DC to 20 kHz	DC to 2 kHz
	I/O polarity	Non-inverting				
	LPF (Cut-off frequency setting)	30 kHz / 100 kHz / 300 kHz / THRU selectable with a switch	10 kHz / 30 kHz / 100 kHz / THRU selectable with a switch	3 kHz / 10 kHz / 30 kHz / THRU selectable with a switch	1 kHz / 3 kHz / 10 kHz / THRU selectable with a switch	100 Hz / 300 Hz / 1 kHz / THRU selectable with a switch
GENERAL	Power supply connector	HR10-7R-4P (73) connector (Hirose Electric)				
	Operating power supply voltage range	±15 V ±1 V				
	Current consumption (no signal)	±40 mA or less, ±37 mA (typ.)		±40 mA or less, ±32 mA (typ.)		±40 mA or less, ±35 mA (typ.)
	Performance guarantee temperature range	23°C ±5°C				
	Temperature and humidity range	Operation : 0°C to 40°C, 5 % RH to 85 % RH (non-condensation) Storage : -10°C to 50°C, 5 % RH to 95 % RH (non-condensation)				
	Dimensions	76(W)×50(D)×21.1(H) mm (without protrusions and bottom plate)				
	Weight	Approx. 135 g (without bottom plate)				
	RoHS	Directive 2011/65/EU				
	EMC	EN 61326-1, EN61326-2-1				
Accessory	Instruction manual, bottom plate, SMA open plug, BNC to SMA adapter x2					

^{*1} Nominal values when f = 1 kHz, f = 100 Hz for SA-607F2 and SA-608F2 ^{*2} The input bias current approximately doubles as the temperature increases by +7 °C ^{*3} when f = 1 kHz, when f = 100 Hz for SA-607F2 and when f= 10 Hz for SA-608F2 (When input is open, Measured with a Keysight 89410A equivalent) ^{*4} Input is opened. ^{*5} Measured with DC ^{*6} When the cut-off frequency is set at THRU.
^{*7} Reference frequency: f = 10 Hz , f = 1 Hz for SA-607F2 , f = 10 mHz for SA-608F2 ^{*8} "Cs" is an added input capacitance between input and GND.

*Note: The contents of this catalog are current as of June 14, 2021.
Product appearance and specifications are subject to change without notice.
Before purchase, contact us to confirm the latest specifications, price and delivery date.