

Specifications

		SA-604F2	SA-605F2	SA-606F2	SA-607F2	SA-608F2	SA-609F2	
INPUT SECTION	Input form	DC coupling, unbalanced single-ended input, SMA connector						
	Maximum input current	±1 μA	±100 nA	±10 nA	±1 nA	±100 pA	±10 pA	
	Input impedance	1 kΩ (typ.)	3 kΩ (typ.)	10 kΩ (typ.)	30 kΩ (typ.)	100 kΩ (typ.)	600 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	100 GΩ or more	
	Input bias current	±1 pA (typ.)				0.1 pA (typ.)		10 fA (typ.)
	Equivalent input current noise density ^{*1}	45 fA/√Hz (typ.)	15 fA/√Hz (typ.)	6 fA/√Hz (typ.)	2.5 fA/√Hz (typ.)	0.6 fA/√Hz (typ.)	0.4 fA/√Hz (typ.)	
OUTPUT SECTION	Output form	DC coupling, unbalanced single-ended input, SMA connector						
	Maximum output voltage	±10 V						
	Maximum output current	±5 mA						
	Output impedance	50 Ω						
	Output offset voltage	±3 mV		±5 mV	±15 mV		±30 mV	
	Output offset voltage adjustment range	±15 mV (typ.)			±20 mV (typ.)		within ±50 mV	
AMPLIFIER SECTION	Gain	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) ±3%	within 1×10 ¹² (1 T) ±1%	
	Gain flatness (within ±0.5 dB) ^{*2}	DC to 50 kHz	DC to 25 kHz	DC to 10 kHz	DC to 2 kHz	DC to 200 Hz	DC to 30 Hz	
	Frequency response (C _s =10 pF) ^{*2,*3}	DC to 500 kHz	DC to 250 kHz	DC to 100 kHz	DC to 20 kHz	DC to 2 kHz	DC to 300 Hz	
	I/O polarity	Non-inverting						
	LPF (Cut-off frequency setting, selectable with a switch)	30 kHz / 100 kHz / 300 kHz / THRU	10 kHz / 30 kHz / 100 kHz / THRU	3 kHz / 10 kHz / 30 kHz / THRU	1 kHz / 3 kHz / 10 kHz / THRU	100 Hz / 300 Hz / 1 kHz / THRU	30 Hz / 3 Hz / 0.3 Hz / THRU	
GENERAL	Power input	HR10-7R-4P (73) connector (Hirose Electric)						
	Operating power supply voltage	±15 V ±1 V						
	Current consumption (no signal)	±40 mA or less		±40 mA or less		±40 mA or less	±40 mA or less	
	Performance guarantee temperature range	23°C ±5°C						
	Temperature and Humidity range	Operation	0°C to 40°C, 5 % to 85 % RH				0°C to 40°C, 5 % to 75 % RH	
		Storage	-10°C to 50°C, 5 % to 95 % RH				-10°C to 50°C, 5 % to 75 % RH	
	Dimensions (mm)	76(W)×50(D)×21.1(H)				100(W)×50(D)×25(H)		
	Weight (approx.)	135 g				140 g		
	RoHS	Directive 2011/65/EU						
	EMC	EN 61326-1: 2013						
Accessories	Instruction manual, bottom plate, SMA open plug, BNC to SMA adapter x2							

^{*1} when f = 1 kHz, when f = 100 Hz for SA-607F2, when f = 10 Hz for SA-608F2 and SA-609F2. ^{*2} When the cut-off frequency is set at THRU. ^{*3} "Cs" is an added input capacitance between input and GND.

*Note: The contents of this catalog are current as of November 6th, 2024.
Product appearance and specifications are subject to change without notice.
Before purchase, contact us to confirm the latest specifications, price and delivery date.

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