

Specifications

	LOW NOISE FET AMPLIFIER SA-240F5	LOW NOISE DIFFERENTIAL FET AMPLIFIER SA-440F5
Input form	DC Coupling, Single-Ended input	DC Coupling, Differential input
Input impedance	1 MΩ / 100 MΩ / open, 60 pF	1 MΩ / 100 MΩ / open, 60 pF
Maximum input voltage	±0.1 V	Differential input : ±0.1 V Common mode input : ±5 V
Input bias current	±15 pA	±200 pA
CMRR	—	90 dB (10 Hz to 10 kHz) 60 dB (1 MHz)
Equivalent input noise voltage density	1.2 nV/√Hz (1 kHz)	1.8 nV/√Hz (1 kHz)
Equivalent input noise current density	5 fA/√Hz (10 Hz)	25 fA/√Hz (100 Hz)
Equivalent input offset voltage	±40 μV or less, ±0.5 μV/°C	±100 μV or less, ±5 μV/°C
Output form	DC Coupling, Single-Ended output	
Maximum output voltage	±10 V (load ≥ 1 kΩ)	
Maximum output current	±10 mA	
Output impedance	50 Ω	
Input / Output polarity	Non-Inverted	—
Voltage gain	40 dB ±0.1 dB or less (1 kHz) ±50 ppm/°C	40 dB ±0.1dB or less (1 kHz) ±100 ppm/°C
Voltage gain frequency characteristic	DC to 20 MHz (LPF : THRU) DC to 1 MHz (LPF : 1 MHz)	
Harmonic distortion	0.004% (2 Vp-p output)	0.006% (2 Vp-p output)
Power input connector	HR10-7R-4P (73) (Hirose Electric Co., Ltd.)	
Operating supply voltage range	±15 V ±1 V	
Consumption current	No signal : ±45 mA Max. : ±75 mA or less	No signal : ±55 mA Max. : ±75 mA or less
Input / Output Connector	SMA	
Operating temperature range	0 to 40°C	
Storage temperature range	-10 to 50°C	
Dimensions	76×50×25 mm (without protrusions and bottom plate)	
Weight	Approx. 105 g (without bottom plate)	Approx. 120 g (without bottom plate)
RoHS	Directive 2011/65/EU	