

Specifications

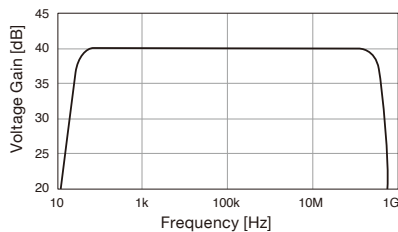
Model	SA-250F6	SA-251F6
Input Type	AC Coupling, unbalanced single-ended input	
Input Impedance	50 Ω (1 MHz)	
Signal Input Voltage Range	0.02 Vp-p or less	
Input VSWR	1.2 or less (100 MHz) 2.0 (250 MHz)	1.2 or less (100 MHz) 1.6 (250 MHz)
Equivalent Input Noise Voltage Density	0.25 nV/√Hz (1 MHz, input open)	
Noise Figure	0.6 dB (10 MHz) 1.0 dB (250 MHz)	0.9 dB (10 MHz) 1.2 dB (250 MHz) 1.8 dB (500 MHz)
Output Form	AC Coupling, unbalanced single-ended output	
Maximum Output Voltage	2.0 Vp-p	
Output Impedance	50 Ω (1 MHz)	
Output VSWR	1.2 or less (100 MHz) 1.4 (250 MHz)	
Input&Output Phase	Inverting	
Voltage Gain	40 ± 0.5 dB (1 MHz)	
Voltage Gain Stability	Temperature 0.001 dB/°C (0 to 40 °C, 1 MHz) Power Voltage 0.005 dB/V (+14 to +16 V, 1 MHz)	
Voltage Gain Frequency Response	100 Hz to 250 MHz (1 MHz Standard)	1 kHz to 500 MHz (1 MHz Standard)

Model	SA-250F6	SA-251F6
Power Supply Connector	Hirose Electric HR10-7R-4P (73)	
Operating Power Supply Voltage Range	Within +15 ±1 V	
Current Consumption	+50 mA (No Signal) +65 mA or less	+65 mA (No Signal) +85 mA or less
Input/Output Connector	SMA connector	
Input/Output Connector	0 °C to 40° C	
Storage Temperature & Humidity Range	-10 °C to 50 °C 5 % RH to 85 % RH (No Condensation)	
Pollution Degree	2	
Altitude	2000 m or less	
External Dimensions (Without protrusions)	76 × 50 × 25 mm (Bottom Plate Excluded) 95 × 50 × 29 mm (Bottom Plate Included)	
Weight	Approx. 120 g (Bottom Plate Excluded) Approx. 140 g (Bottom Plate Included)	
RoHS	Directive 2011/65/EU	
EMC	EN61326-1 EN61326-2-1	

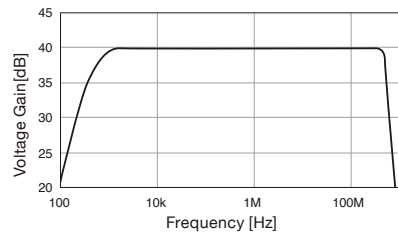
Characteristics Figures

Voltage Gain Frequency Response

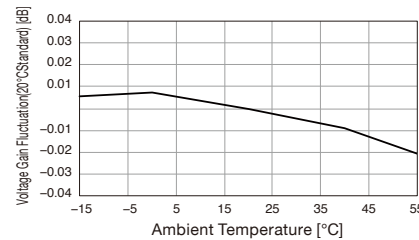
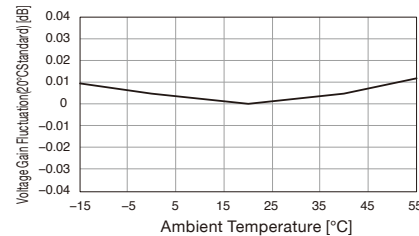
SA-250F6



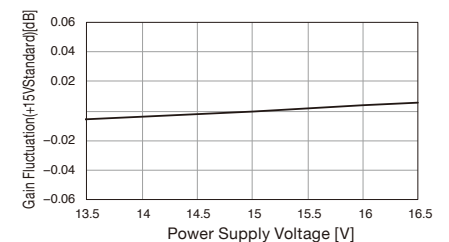
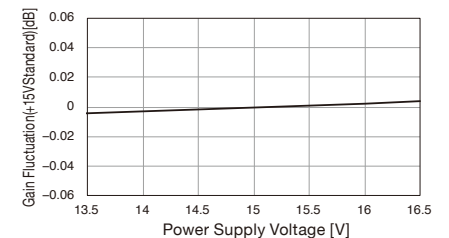
SA-251F6



Temperature Dependence of Voltage Gain



Power Supply Voltage Dependence of Voltage Gain



*Note: The contents of this catalog are current as of May 12, 2021.

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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