

PRODUCT STANDARD

Doc. No.	
Title	SPECIFICATIONS OF ISOLATION AMPLIFIER Model Name: 8A120T2

Parameter	Ratings	Remarks
1. Withstand Voltage (AC) rms Input-Output Input-Powersupply Output-Powersupply	2000V/1min. 1500V/conti. 2000V/1min. 1500V/conti. 2000V/1min. 1500V/conti.	
2. Input Input Signal Voltage Gain Setting Range Offset Voltage Input Referred Temp. Drift Gain Setting Drift Impedance Input Bias Current Common-Mode Rejection Ratio Input Breakdown Voltage	0~5V 0~40dB $\pm 10\text{mV}(\text{max})$ $5\mu\text{V}/^{\circ}\text{C}(\text{typ.}), 20\mu\text{V}/^{\circ}\text{C}(\text{max.})$ $50\text{ppm}/^{\circ}\text{C}(\text{typ.}), 100\text{ppm}/^{\circ}\text{C}(\text{max.})$ $50\text{M}\Omega$ 20nA(typ.), 50nA(max.), 110dB (min.) $\pm 50\text{V}(\text{max.})$	Gain 0dB 0~+60°C/ave. 0~+60°C/ave. Gain 0dB diffe.
3. Output Output Current Load Resister (max.) Allowable Power Dissipation Non Linearity	22mA (max.) V/I conversion factor 3.3mA/V 825 Ω 750mW 0.02%(typ.) 0.05% (max)	20mA Output Gain 0dB
4. Frequency Respos (-3dB)	DC~1KHz	Full Power (20mA)
5. Noise Carrier Spike Voltage Value Spike Half Width	$5\mu\text{A}^{\text{P-P}}(\text{typ.})$ $50\mu\text{A}^{\text{P-P}}(\text{typ.})$ 0.2 $\mu\text{sec.}$	
6. Modulation Frequency of Modulation	AM Modulation approx. 20KHz	
7. Capacity between I/O terminals	10pF (typ.), 20pF (max)	
8. Embedded Bias Supply	$\pm 15\text{V}, 5\text{mA}(\text{max.})$	
9. Power Supply Consumption Current 0mA Output 20mA Output	+15V $\pm 5\%$ 55mA 75mA	
10. Temperature Range Specification Operating Strage	0~+60°C -25°C~+85°C -55°C~+125°C	
11. External Dimensions	47x62x16mm	
12. Weight	approx. 100 grum	