MORNSUN®

PASSIVE SIGNAL AMPLIFIER lin & lout T1100L



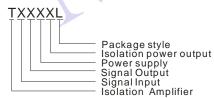
DESCRIPTION

T1100 series, a standard analog amplifier, with 4~20mA current signal input and 4~20mA current signal output, is a passive signal isolation module. Adopting unique electromagnetism isolation design and high efficiency loop electric-larceny technology, independent power supply is not required for the module, realizing 4~20mA standard signal isolation with high accuracy and linearity. Besides, the modules have extremely low temperature drift (no more than 35ppm/°C under -25°C~ +71°C). The isolation voltage between the input and output can be up to 3KVDC.

FEATURES

- Two-port isolation (Between input and output)
- High accuracy (0.1% F.S.)
- High linearity (0.1% F.S.)
- Isolation voltage(3KVDC/60s)
- Low voltage-drop(3V typ: @ input=20mA)
- Extremely low temperature drift (35PPM/°C)
- Industry standard(Operating Temperature Range: -25°C ~ 71°C)
- High reliability(MTBF>500,000 hours)

MODEL SELECTION



PRODUCT PROGRAM

Part Number	Power Supply	Input	Output	Isolation Power Output	Channels	Package
T1100L	NONE	4~20mA	4~20mA	NONE	1	SIP12

ELECTRICAL CHARACTERISTICS

	Power Supply	None	
Power Supply Parameter	Power Consumption	None	
	Power Protection	None	
	Input Signal	4~20mA	
Input Parameter	Overload	≤50mA	
	Voltage Drop-out	Typ: 3V(@input = 20mA)	
	Output Signal	4~20mA	
Output Parameter	Load Capacity	≤300Ω (At output = 20mA)	
	Load Regulation	<0.05% meas.val./100Ω	

TRANSMISSION CHARACTERISTICS

Zero Offset	0.1%F.S.			
Gain Error	0.1%F.S.			
Temperature Drift	0.0035%F.S./°C(-25°C ~ +71 °C)			

ISOLATION CHARACTERISTICS				
Galvanic Isolation	Two-port isolation (Between input and output)			
Isolation Voltage	3KVDC (Tested for 1minute and leakage current < 1mA, humidity < 70%)			
Insulation Resistance	100MΩ,500VDC(Between input and output)			

OTHER CHARACTERISTICS Ambient Operation temperature: -25°C ~ +7°

Ambient	Operation temperature:-25°C ~ +71°C		
temperature	Transport and Storage temperature:-50°C ~ +105°C		
Package	SIP12		
Weight	About 8g		
Application Environment	No dust, fierce vibration, impulsion and corrosive gas		

Note:

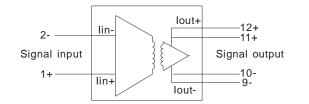
1. All specifications measured at TA=25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.

 Only typical models listed, specifications of custom product may be different. Please contact our service people directly for certain conditions.

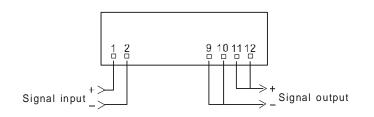
MORNSUN Science & Technology Co.,Ltd.

Address: No. 5, Kehui St. 1, Kehui development center, Science Ave., Guangzhou Science City, Luogang district, Guangzhou,P.R.China. Tel: 86-20-28203030 Fax:86-20-28203068 <u>Http://www.mornsun-power.com</u>

SCHEMATIC DIAGRAM



APPLICATION CIRCUIT DIAGRAM



APPLICATION NOTE

- Please read instruction book carefully before using the product. If you have any question, please contact with our technical support.
- 2. Please don't install in the dangerous zone.
- 3. Don't divide the product privately in case the equipments ineffective or go wrong.

AFTER SERVICE

- Products are carefully inspected and controlled before going out from our factory. If they operated abnormally or there were anything wrong in the inner parts, please contact with our agents near you or technical support in our company as soon as possible.
- 3 years warranty since the delivery date. During the period of quality guarantee, our company will repair or change free of charge if product has any quality problem in the process of normally using.

APPLICATION CIRCUITS

See A GUIDE TO INSTRUMENTATION ISOLATION AMPLIFIERS for more detail.

PACKAGING SIZE AND TERMINAL DESCRIPTION

