

# XIS00

## POWER ISOLATED MODULE

### DESCRIPTION

XIS00 is a cost effective isolated DC/DC designed for data input /output and data communication port galvanic isolation application.

It provides regulated and short-circuit protected output at 5V with 1.5kVDC isolation and a wide operating temperature range of -20°C to +85°C without derating.

XIS00 ideal for industrial, transportation, maritime, and general-purpose for galvanic isolation, powered up from on-board 5V power supplies. The converters come with a one year warranty.

### FEATURES

- 1.5kVDC isolation
- Lead free, RoHs Compliant
- Short output protection
- -20°C to +85°C operating temperature @ full load
- Low cost

### APPLICATIONS



Industry



Network



Telecom



Data Center

### ABSOLUTE MAXIMUM RATINGS

Input Voltage 5V

Operating Ambient Temperature - 20°C to +85°C

Storage Temperature -40°C ~ 100°C

I/O Isolation Voltage 1500V



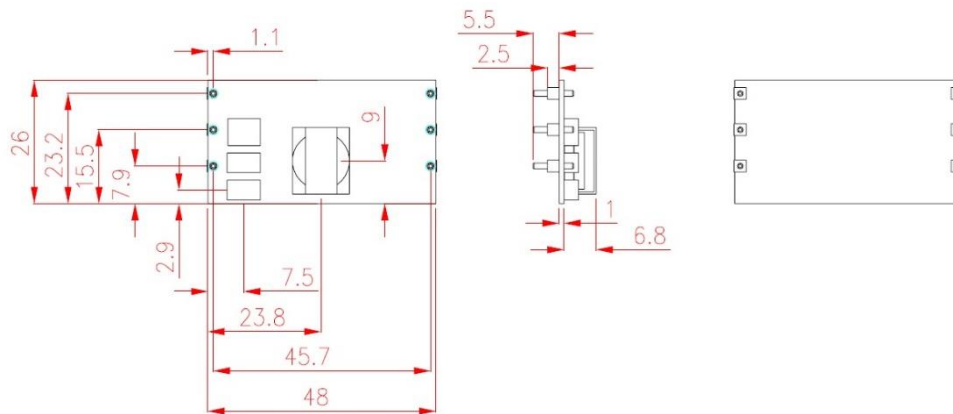
## ELECTRICAL CHARACTERISTICS

TA = 25°C

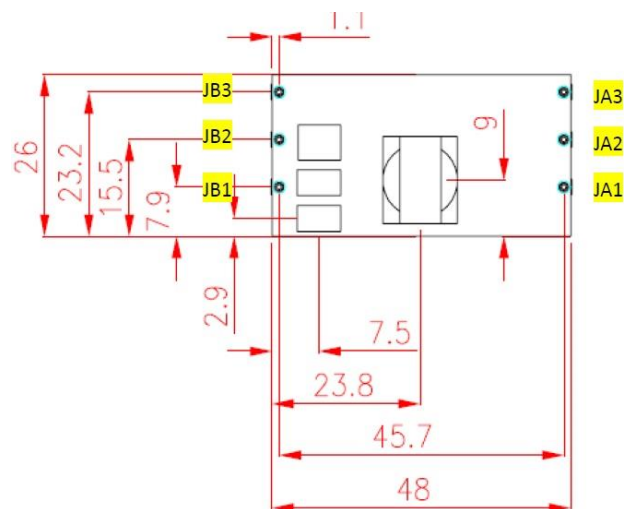
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
Operating Input Voltage		4.75	5	5.25	V
Internal Power Dissipation	@ 100% Load	-	1.5	-	W
Input Turn-On Voltage Threshold		-	-	5	V
Output Voltage		4.75	5	5.25	V
Output Voltage Accuracy		-	±5.0%	-	%Vo
Output Current		-	-	0.3	A
Output Current Limit:	104% Output Current	-	-	0.31	A
Short Output Protection	Continuous, Auto-recovery				
Efficiency	@ 100% Load	-	75	-	%
I/O Isolation Voltage		1500	-	-	VDC
Isolation Capacitance		-	100	-	pF
Isolation Resistance		20	-	-	MΩ
MTBF (calculated)	Io=80%Iomax, Ta=25°C,300LFM	-	5000	-	Hours

## MECHANICAL SPECIFICATIONS

- Outline Dimensions W\*L\*H: 48mm x 26mm x 7.8mm
- Weight: 41g nominal
- Lead-free (RoHS) compliant
- Operating Temperature Range: -20 to 85° C
- Max. Average Operating Temperature: 85° C
- Storage Temperature: -40 to +100° C



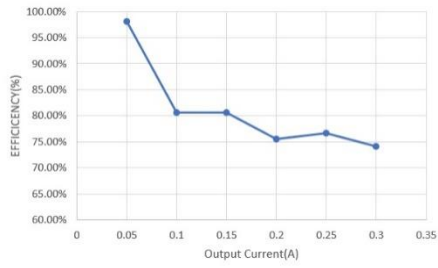
## PIN CONFIGURATION



Pin Number	Description
JA1	5VCC
JA2	NC
JA3	GND
JB1	ISO_5VCC
JB2	NC
JB3	ISO_GND

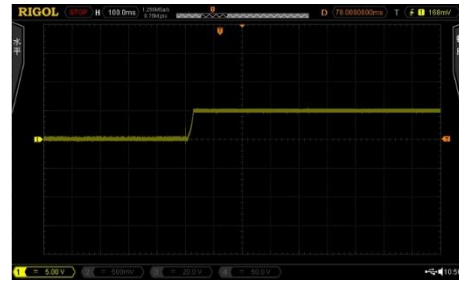
# OPERATION CHARACTERISTIC

## MODULES EFFICIENCY



Vin=5V

## TURN-ONTRANSIENT AT ZERO LOAD CURRENT



Vin=5V