



Standard Specification Sheet Model: M3530B
Input Isolation Module for $\pm 10V$
Top trimmer model

OVERVIEW



This is analog isolation module that isolates $\pm 10V$ signal.

- ▽ Input isolation module (Ports for output and power are connected with common ground terminal.)
- ▽ Signal bandwidth: 2kHz-3dB
- ▽ Potting by polyurethane resin and gold plate with I/O pins make it durable for harsh environment.
- ▽ Zero and span adjustment trimmers are placed at the top of the module.

SPECIFICATIONS

INPUT SECTION

Input Signal	$\pm 10V$ DC
Input Resistance	1M Ω min. (1M Ω without power @specified input)
Allowable Overvoltage	$\pm 30V$ max.
Input Offset Voltage	$\pm 0.5mV$ max.
Input Bias Current	20nA max.

OUTPUT SECTION

Output Signal	$\pm 10V$ DC
Output Resistance	1 Ω max.
Maximum Output Load	1mA max.
Zero Adjustment	Approx. $\pm 1\%$ of span
Span Adjustment	Approx. $\pm 1\%$ of span

PERFORMANCE

Accuracy Rating	$\pm 0.05\%$ /F.S. (@25°C $\pm 5^\circ C$)
Non-Linearity	$\pm 0.05\%$ /F.S.
Zero Drift	$\pm 0.004\%$ /F.S./°C
Gain Drift	$\pm 0.01\%$ /F.S./°C
Response Time	2kHz-3dB or 0.2msec. max (0 \rightarrow 90%) @0 \rightarrow 100% step input
Insulation Resistance	100M Ω min. (@500V DC) Across Input and Output + Power Input
Dielectric Strength	Across Input and Output + Power input: 1,500V AC for 1 minute (cutoff current: 0.5mA)
Power Requirement	15V DC $\pm 2\%$
Power Consumption	11mA max.

Operating Environment	Ambient temperature: 0~60°C Humidity: 5~90%RH max. (Non-condensation)
Storage Temperature	-20~80°C

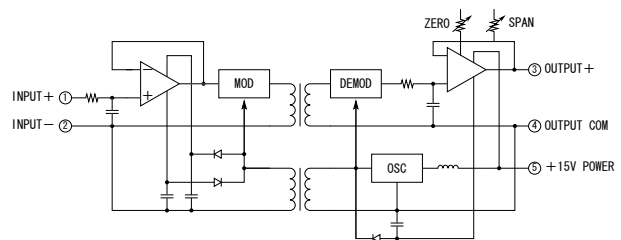
PHYSICAL and MATERIAL

Outer Dimension	W48 x H32 x D14mm
Weight	Approx. 35g
Housing Material	PBT
PCB	Glass Fabric, Epoxy Resin
Potting	Polyurethane Resin

ORDERING INFORMATION

Ordering Code	Standard Price
M3530B	OPEN

CIRCUIT BLOCK DIAGRAM



DIMENSIONAL DRAWING

