



Standard Specification Sheet Model: M3531B
Input Isolation Module for 0~10V
Top trimmer model

OVERVIEW



This is analog isolation module that isolates 0~10V 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	0~10V DC
Input Resistance	1MΩ min. (1MΩ without power @specified input)
Allowable Overvoltage	±30V max.
Input Offset Voltage	±0.5mV max.
Input Bias Current	20nA max.

OUTPUT SECTION

Output Signal	0~10V DC
Output Resistance	1Ω max.
Maximum Output Load	1mA max.
Zero Adjustment	Approx. ±1% of span
Span Adjustment	Approx. ±1% of span

PERFORMANCE

Accuracy Rating	±0.05%/F.S. (@25°C ±5°C)
Non-Linearity	±0.05%/F.S.
Zero Drift	±0.004%/F.S./°C
Gain Drift	±0.01%/F.S./°C
Response Time	2kHz~3dB or 0.2msec. max (0→90%) @0→100% step input
Insulation Resistance	100MΩ 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 ±2%
Power Consumption	11mA max.

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

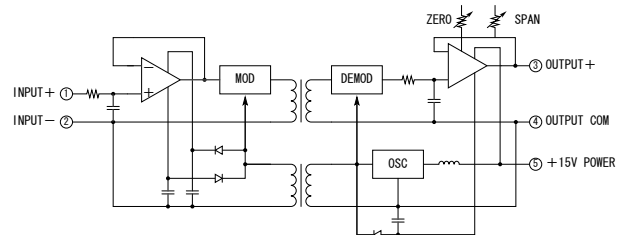
PHYSICAL and MATERIAL

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

ORDERING INFORMATION

Ordering Code	Standard Price
M3531B	OPEN

CIRCUIT BLOCK DIAGRAM



DIMENSIONAL DRAWING

