



Standard Specification Sheet Model: M3504B
Input Isolation Module for $\pm 10V$
Bottom trimmer model with max. 50V overvoltage

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: 1kHz-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 bottom of the module.

SPECIFICATIONS

INPUT SECTION

Input Signal	$\pm 10V$ DC
Input Resistance	1M Ω min. (1M Ω without power @specified input)
Allowable Overvoltage	$\pm 50V$ 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

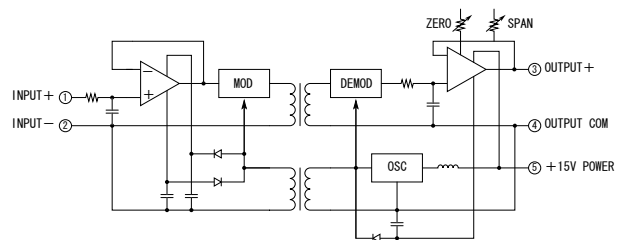
Accuracy Rating	$\pm 0.05\%$ /F.S. (@25°C $\pm 5^\circ C$)
Non-Linearity	$\pm 0.05\%$ /F.S.
Zero Drift	$\pm 0.004\%$ /F.S./ $^\circ C$
Gain Drift	$\pm 0.01\%$ /F.S./ $^\circ C$
Response Time	1kHz-3dB or 0.45msec. max (0 \rightarrow 90%) @0 \rightarrow 100% step input
Insulation Resistance	100M Ω min. (@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 \sim 60 $^\circ C$ Humidity: 5 \sim 90%RH max. (Non-condensation)

Storage Temperature	-20 \sim 80 $^\circ C$
PHYSICAL and MATERIAL	
Outer Dimension	W48 \times H32 \times D14mm
Weight	Approx. 35g
Housing Material	PBT
PCB	Glass Fabric, Epoxy Resin
Potting	Polyurethane Resin

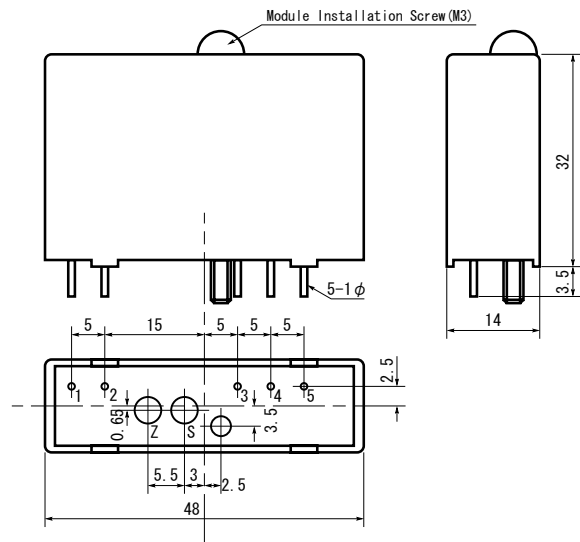
ORDERING INFORMATION

Ordering Code	Standard Price
M3504B	OPEN

CIRCUIT BLOCK DIAGRAM



DIMENSIONAL DRAWING



	Pin Assignment
1	INPUT +
2	INPUT -
3	OUTPUT +
4	OUTPUT COM.
5	POWER +15V