High-Precision, Ultra-High Speed Response Isolator

Compact plug-in type: M2VF3

- Accuracy: ±0.01%
- Response: ≤30 µs (0-90%)
- Freq. characteristics: 12 kHz, -3 dB

Hybrid IC type: 20VF

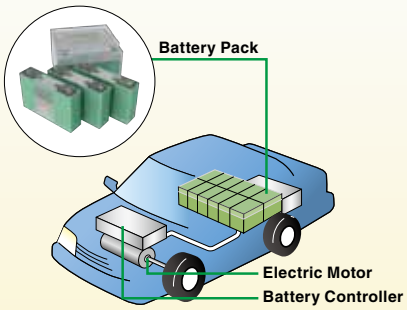
- Linearity: ±0.05%
- Response: ≤80 µs (0-90%)
- Freq. characteristics: Approx. 5 kHz, -3 dB

Ultra-slim type: M6xVF

- Accuracy: ±0.01%
- Response: ≤30 µs (0-90%)
- Freq. characteristics: 12 kHz, -3 dB

Application example: Battery Test System

The battery test system is used for evaluating advanced batteries or capacitors in hybrid vehicles.
The main feature of system is to conduct charging and discharging tests for batteries.

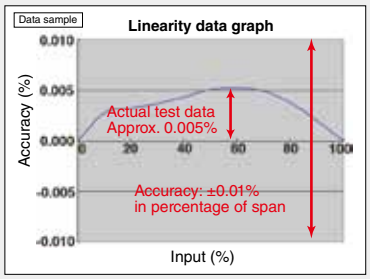


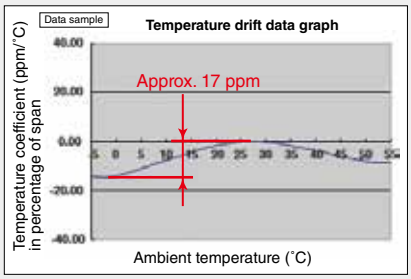
Benefits of using M-System signal isolator to meet required A/D conversion criteria:

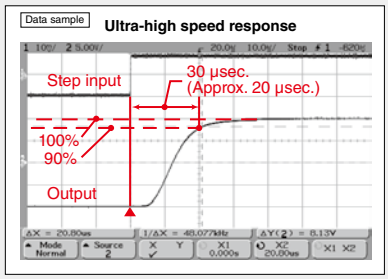
- High precision (linearity and low temperature drift)
- Ultra fast response time
- Dielectric strength for high frequency noise
- Low power consumption
- Variety of form factors available (Surface mount, Ultra-slim, shallow depth, etc.) to maximize space constraints

Performance data of M2VF3:

- Wide input DC voltage range is available to specify from min. -20 to +20 mV up to -800 to +800 V
- High accuracy: ±0.01%, Temp. coefficient: ±0.005%/˚C, in percentage of span
- Ultra-high speed response: ≤30 µs (0-90%)







The above data is for M2VF3