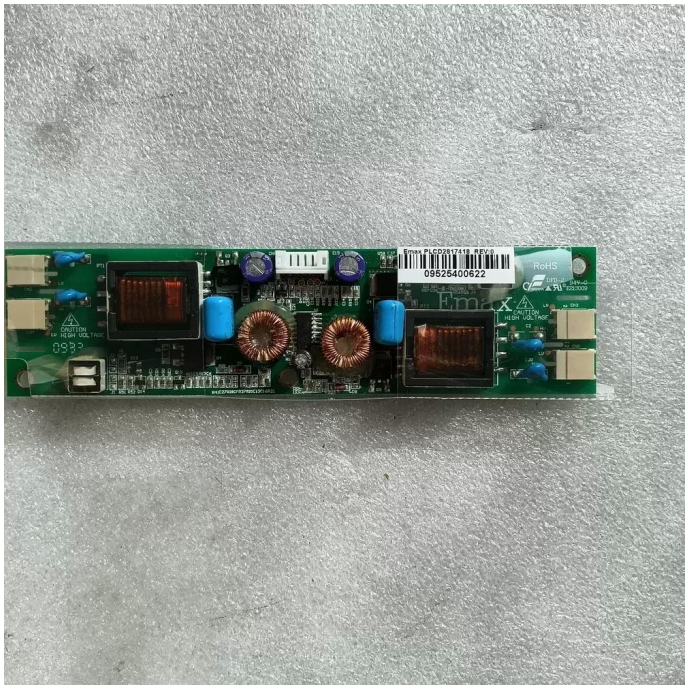
B-212-680-02 Panasonic 220-240V Refrigerator Inverter Board Datasheet



SKU: 1032864758839

Category: Power Supplies & Circuit Protection

Price: **$42.99**

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Product Description

The B-212-680-02 is a high-precision refrigerator inverter control board engineered for variable speed compressor management. This Japanese-manufactured PCB converts single-phase 220-240VAC input into a modulated three-phase output (typically 65-180V) to regulate motor RPM based on real-time thermal demand. By utilizing advanced pulse width modulation (PWM), the board maintains strict temperature tolerances within ±0.5°C while reducing energy consumption by up to 30% compared to fixed-speed systems. It features integrated over-current protection, thermal shutdown circuitry, and high-grade Japanese capacitors for extended operational life in high-humidity appliance environments.

B-212-680-02 Specifications
Model Number: B-212-680-02
Brand: Panasonic (Matsushita)
Product Category: Refrigerator Inverter Control Board
Input Voltage: 220-240VAC
Input Frequency: 50Hz
Input Phase: Single Phase (1PH)
Output Voltage Range: 65V - 180V (Variable)
Output Frequency Range: 40Hz - 150Hz
Output Phase: Three Phase (3PH)

Compatible Compressor Types: Variable Speed / Inverter Reciprocating
Manufacturing Origin: Japan
Protection Features: Over-voltage, Under-voltage, Short-circuit, Thermal Overload
Connection Type: Multi-pin Wire Harness Connector
PCB Material: FR-4 Glass Epoxy
Operating Temperature: -10°C to +60°C
Storage Temperature: -20°C to +85°C
Compliance: RoHS, JIS Standards

B-212-680-02 Applications

Automated thermal regulation for high-efficiency domestic refrigerators, multi-door cooling systems, and commercial cold storage units utilizing variable speed inverter compressors.

Supplemental Images