

Power Module

Series: **FM (Quarter-brick)**

Type: **1.8V, 3.3V**

DC/DC converter of 48V DC input voltage for telecommunication equipment.
Small size(quarter-brick) and high efficiency DC/DC converter is achieved by making use of an original partial resonant zero voltage switching technology and the synchronous rectification technology.

Applied Safety Std. : According to UL60950
Industrial Property : 8 Patents (Pending)

■ Features

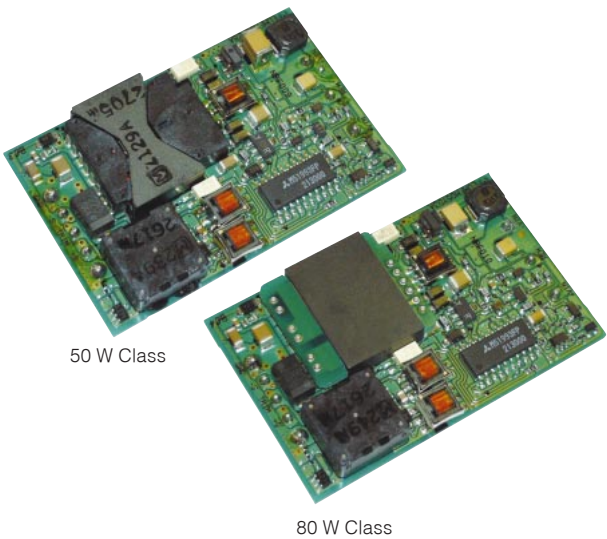
- Small size (quarter-brick size 37 mm × 58 mm)
- High efficiency : 91%(80W Class)
- Low profile : 8.5 mm
- Wide range of input voltage : 36 VDC to 72 VDC
- Low output voltage and high output current (25 A max.)

■ Recommended Applications

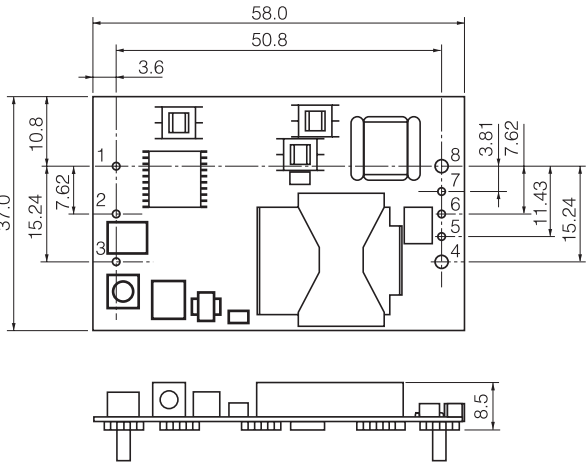
- Private Branch Exchange (PBX)
- Digital Signal Processor (DSP)
- Field Programmable Gate Array (FPGA)
- Server

■ Explanation of part numbers

| | | | | | | | | | | |
|--------------|---|---|-------------|---|--------------|---|---------------|----------------|------------|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| E | U | M | F | M | 0 | 8 | Y | D | 3 | A |
| Product Code | | | Series Code | | Output Power | | Input Voltage | Output Voltage | Design No. | |



■ Dimensions in mm (not to scale)



■ Ratings(Typical Spec.)

| Product No. | | EUMFM03YE8A | EUMFM05YD3A | EUMFM08YD3A | Condition |
|-------------------|---------------------------------|--|----------------|----------------|------------------------------|
| Input Conditions | Input Voltage | 36 VDC to 72 VDC (Rated48 VDC) | | | |
| | Input Current | 0.95 A max. | 1.3 A max. | 2.0 A | Rated input and output |
| | Efficiency | 85 % typ. | 88 % typ. | 91 % typ. | Rated input and output |
| Output Conditions | Rated output Voltage | 1.8 V | 3.3 V | 3.3 V | |
| | Voltage Adjustable Range | 1.65 V to 1.95 V | 3.1 V to 3.5 V | 3.1 V to 3.5 V | |
| | Rated Output Current | 20 A | 15 A | 25 A | |
| | max. Output Current | 20 A | 15 A | 25 A | |
| | Line Regulation | 50 mV | 50 mV | 50 mV | |
| | Load Regulation | 50 mV | 100 mV | 50 mV | |
| | Ripple Noise Voltage | 150 mV[P-P] | 150 mV[P-P] | 100 mV[P-P] | |
| Environment | Operating Temperature | -40 °C to 85 °C | | | |
| | Operating Humidity | 5% to 85% | | | Not be dewy |
| | Storage Temperature | -40 °C to 95 °C | | | |
| Insulation Spec. | Dielectric Withstanding Voltage | 1500 VDC for 1 min (Between input and output) | | | Normal temp. Normal humidity |
| | Insulation Resistance | 10 MΩ 500 V DC (Between input and output) | | | Normal temp. Normal humidity |
| Others | Attached Function | Over current protection, Over voltage protection | | | |
| | | Remote ON/OFF, Remote sensing | | | |
| | Size | W58 mm × D37 mm × H8.5 mm | | | |
| | Mass | 30 g | | | |

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.