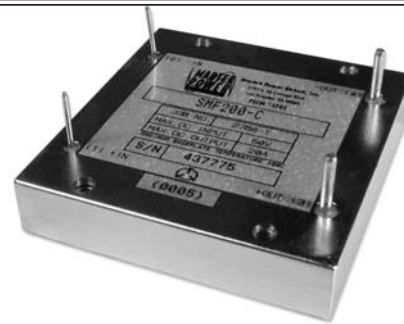




# SM Series

## Accessory Products

### EMI Filter



#### FEATURES

- Does Not Require External Components For Operation
- MIL - STD - 461C Part 2, Class A1b Compliance
- Less Than 1.0 Volt Drop Across The SMF200  
Less Than 1.0 Volt Drop Across The SMF200 (270)
- Thermally Non-Dissipative Device
- Environment: MIL - STD - 810E, MIL - STD - 901C

#### SPECIFICATIONS

##### 28 Vdc Input

|                                 | Min | Typ             | Max  | Units |
|---------------------------------|-----|-----------------|------|-------|
| Input Voltage                   |     |                 | 50   | Vdc   |
| Rated Output Current            |     |                 | 20   | A     |
| Isolation: Input/output to Case | 500 |                 |      | Vdc   |
| Operating Temperature           | -55 |                 | +100 | °C    |
| Storage Temperature             | -55 |                 | +125 | °C    |
| Insulation Resistance(@50 Vdc)  | 50  |                 |      | MOhm  |
| Size                            |     | 2.4 x 2.3 x 0.5 |      | inch  |
|                                 |     | 61 x 59 x13     |      | mm    |
| Weight                          |     | 5.0             |      | oz    |
|                                 |     | 140             |      | grams |

#### HOW TO ORDER

**SMF**   **200**   -   **C**   **(270)**

Series —  
Total Output Power —  
Options —  
Input Voltage —

Options: **A** - pins out baseplate of unit      **I** - metric inserts (M3)  
**C** - thru hole inserts (0.140 DIA)

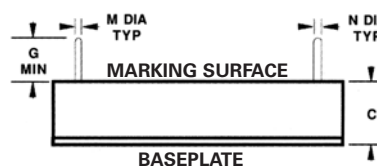
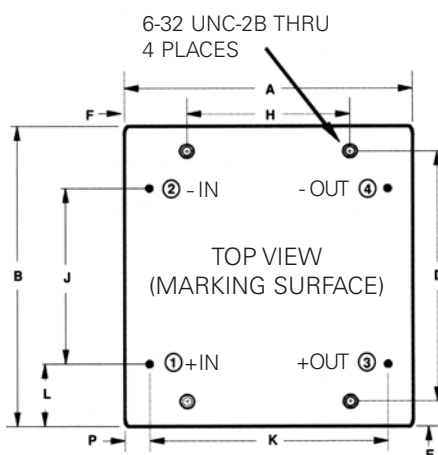
Standard unit is 28 Vdc nominal input with pins out the top written as SMF200

#### SPECIFICATIONS

##### 270 Vdc Input

|                                 | Min  | Typ             | Max  | Units |
|---------------------------------|------|-----------------|------|-------|
| Input Voltage                   |      |                 | 500  | Vdc   |
| Rated Output Current            |      |                 | 2    | A     |
| Isolation: Input/output to Case | 1000 |                 |      | Vdc   |
| Operating Temperature           | -55  |                 | +100 | °C    |
| Storage Temperature             | -55  |                 | +125 | °C    |
| Insulation Resistance(@50 Vdc)  | 50   |                 |      | MOhm  |
| Size                            |      | 2.4 x 2.3 x 0.5 |      | inch  |
|                                 |      | 61 x 59 x13     |      | mm    |
| Weight                          |      | 5.0             |      | oz    |
|                                 |      | 140             |      | grams |

#### CASE DRAWINGS



**Standard Pins** - Pin Placement: top.  
Model number written as SMF200

**A Option** - Pin Placement: baseplate.  
Model number written as SMF200 - A

**C Option** - Thru hole inserts (0.140 DIA).  
Model number written as SMF200 - C

|      | A    | B    | C    | D     | E   | F    | G   | H     | J     | K     | L    | M    | N    | P   |
|------|------|------|------|-------|-----|------|-----|-------|-------|-------|------|------|------|-----|
| inch | 2.30 | 2.40 | .50  | 2.100 | .15 | .50  | .30 | 1.300 | 1.400 | 1.900 | .50  | .040 | .080 | .20 |
| mm   | 58.4 | 61.0 | 12.7 | 53.34 | 3.8 | 12.7 | 76  | 33.02 | 35.56 | 48.26 | 12.7 | 1.02 | 2.03 | 5.1 |

Tolerances: Inches    x.xx = ±0.03  
                                  x.xxx = ±0.015  
                                  mm    x.xx = ±0.4  
                                  x.x = ±0.8

Material: Pin - Brass (Solder Plating), Baseplate - Aluminum  
5052-H32, Case - Steel.  
Finish: Nickel Plating.  
Mounting: 6-32 THD inserts are provided in baseplate.  
Metric: M3 inserts.



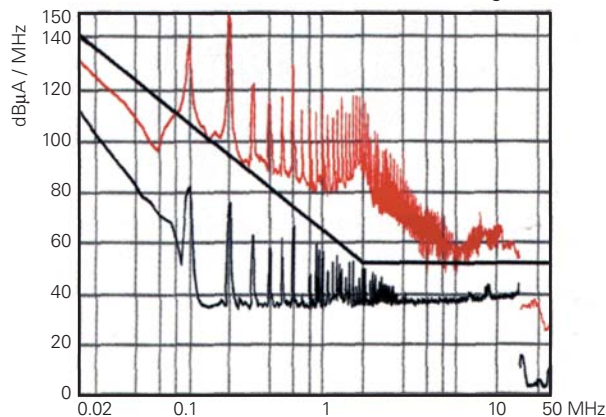
# Characteristics

# SMF200

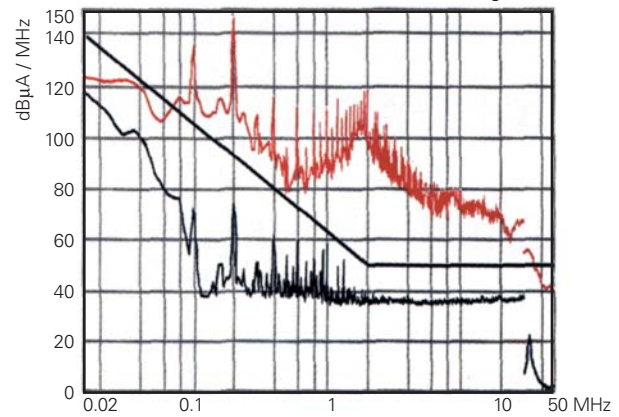
## 5 V<sub>out</sub> - 200 Watts Power Supply

## 28 V<sub>out</sub> - 280 Watts Power Supply

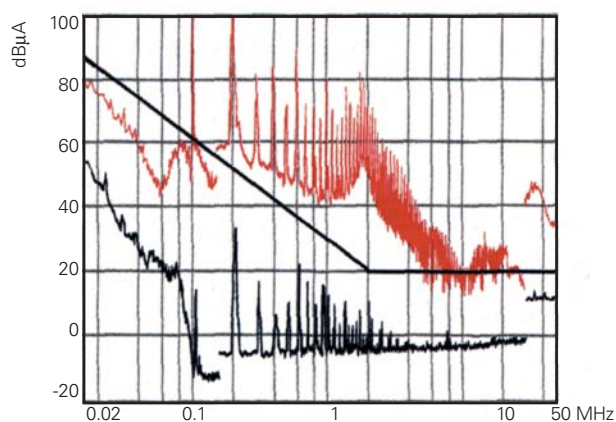
MIL-STD-461C CE03 - Broadband Part 2, Fig 3 - 3



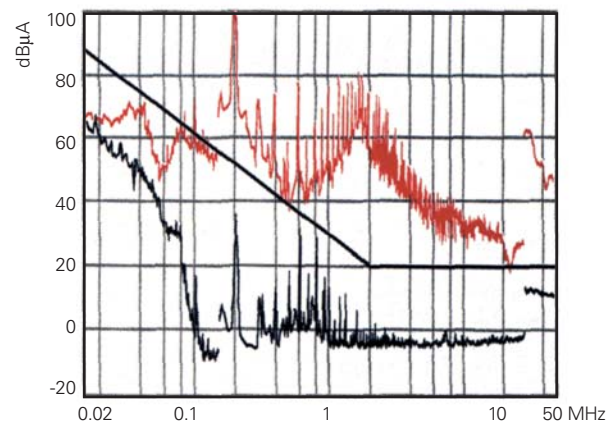
MIL-STD-461C CE03 - Broadband Part 2, Fig 3 - 3



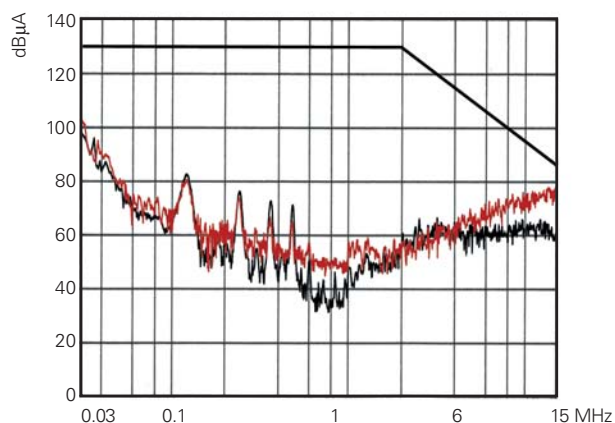
MIL-STD-461C CE03 - Narrowband Part 2, Fig 3 - 2



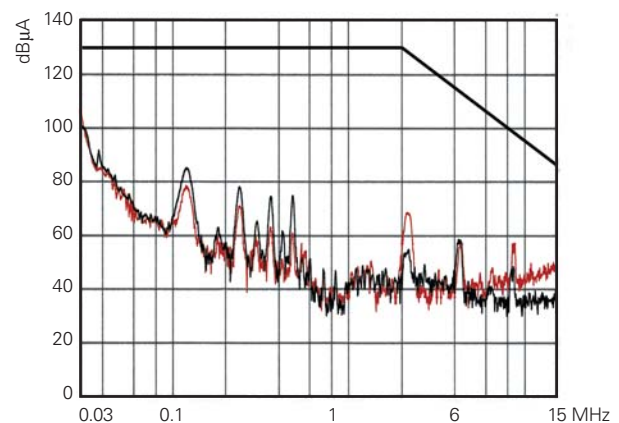
MIL-STD-461C CE03 - Narrowband Part 2, Fig 3 - 2



MIL-STD-461C CE01 Part 2, Fig 3 - 1



MIL-STD-461C CE01 Part 2, Fig 3 - 1



### LEGEND:

■ without SMF200EMI filter

■ with SMF200 EMI filter

All specifications are typical @+25°C with nominal input voltage under full output load conditions, unless otherwise noted. Specifications subject to change without notice.