

GAMMA
HIGH VOLTAGE RESEARCH INC.

SERIES MC

10 Models Covering the Range of 50 VDC to 20 KVDC

FEATURES:

- Low Cost
- Output Proportional to Input
- Input/Output Floating
- High Input/Output Isolation
- Short Circuit And Reverse Polarity Protected
- Compact (2.8 cu. in.)
- Fully Encapsulated

APPLICATIONS:

- Medical Electronics
- Photomultipliers
- Ionization Chambers
- Geiger Tubes



MC Series

MODEL GUIDE

MODEL	OUTPUT VOLTAGE RANGE	OUTPUT POLARITY	OUTPUT CURRENT
MC5	50V to 500 VDC	Reversible	6mA
MC15	150V to 1.5KVDC	Reversible	2mA
MC30	300V to 3KVDC	Reversible	1mA
MC50	500V to 5KVDC	Reversible	200μA
MC100P	1KV to 10KVDC	Positive	200μA
MC100N	1KV to 10KVDC	Negative	200μA
MC150P	1.5KV to 15KVDC	Positive	160μA
MC150N	1.5KV to 15KVDC	Negative	160μA
MC200P	2KV to 20KVDC	Positive	150μA
MC200N	2KV to 20KVDC	Negative	150μA

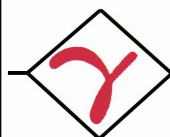
DESCRIPTION:

The Gamma "MC" Series provides a high voltage source in a miniature package. Output voltage is proportional to the input, and is linear from approximately 10% to maximum output voltage. This series incorporates high frequency power supply techniques allowing 5KV at 3 watts to be achieved in 2.8 cubic inches. 10KV, 15KV and 20KV size is 5.6 cubic inches.

Maximum input voltage required is 12VDC* having a positive or negative polarity. Input/output isolation allows the user to select an output of either polarity on Models up to 5KV. **15 VDC input is required for output voltage of 15KVDC, 24VDC input is required for output voltage of 20KVDC.*

10KV, 15KV and 20KV units have a fixed polarity, either Positive or Negative.

The compact size of the GAMMA "MC" Series facilitates PC Board mounting. All units are overload, short circuit and reverse polarity protected.



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HIGH VOLTAGE

SERIES MC

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ELECTRICAL CHARACTERISTICS

Input Voltage: 1.75V to 12VDC (UP TO 10KVDC)
1.75V to 15VDC (15KVDC Model)
3.5V to 24VDC (20KVDC Model)

Input Current: 400mA (Models up to 10KV)
300mA (15KV Model)
375mA (20KV Model)

Output Voltage: Proportional to Input (see Model Guide)

Output Current: 3 Watts maximum (see Model Guide)

Load Regulation: 5% (1/2 to full load)

Ripple: 1% P/P (typical)

PHYSICAL CHARACTERISTICS

Dimensions: 1.5" x 2.5" x .75" (up to 5KV)
1.5" x 2.5" x 1.5" (10,15 & 20KV)

Volume: 2.8 cu. in. (up to 5KV)
5.6 cu. in (10, 15 and 20KV)

Weight: 4oz (up to 5KV)
7oz (10, 15 and 20KV)

Packaging: Solid Encapsulation

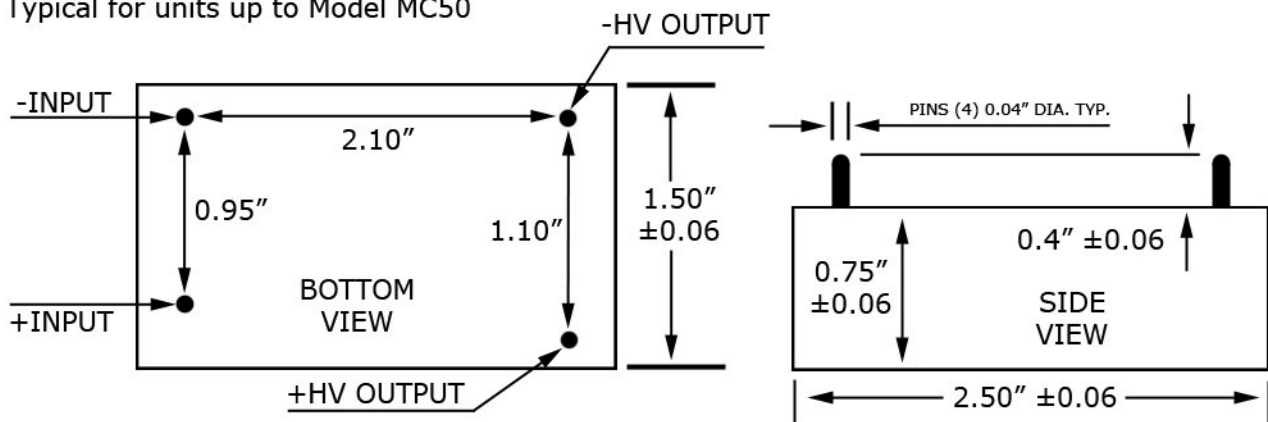
Terminations: 4PC Pins (.043 dia holes) (up to 5KV)
3 PC Pins (0.43 dia holes)(10,15 & 20KV)

ENVIRONMENTAL CHARACTERISTICS

Temperature Range: -20° to +60° C

PC BOARD MOUNTING

Typical for units up to Model MC50



Typical for Models MC100, MC150 and MC200

