

Unit measures 0.8"W x 1.25"L x 0.4"H

- Low 5V or Wide 2 : 1 Input Range
- PI Input Filter
- Regulated Outputs
- 1600V Isolation
- 3.3 to 15VDC Outputs
- Standard Pinouts

| Model Number         | Output Voltage | Output mAmps | Input Range | Efficiency |
|----------------------|----------------|--------------|-------------|------------|
| <b>SINGLE OUTPUT</b> |                |              |             |            |
| PMKC03-05S33         | 3.3 VDC        | 600          | 4.5-6.0 VDC | 61%        |
| PMKC03-12S33         | 3.3 VDC        | 600          | 9-18 VDC    | 65%        |
| PMKC03-24S33         | 3.3 VDC        | 600          | 18-36 VDC   | 66%        |
| PMKC03-48S33         | 3.3 VDC        | 600          | 36-75 VDC   | 68%        |
| PMKC03-05S05         | 5 VDC          | 500          | 4.5-6.0 VDC | 70%        |
| PMKC03-05S12         | 12 VDC         | 250          | 4.5-6.0 VDC | 75%        |
| PMKC03-05S15         | 15 VDC         | 200          | 4.5-6.0 VDC | 75%        |
| <b>DUAL OUTPUT</b>   |                |              |             |            |
| PMKC03-05D05         | +/-5 VDC       | +/-300       | 4.5-6.0 VDC | 70%        |
| PMKC03-05D12         | +/-12 VDC      | +/-125       | 4.5-6.0 VDC | 75%        |
| PMKC03-05D15         | +/-15 VDC      | +/-100       | 4.5-6.0 VDC | 75%        |

## Isolated and Regulated 3 WATT Modular DC/DC Converters

## PMKC03 series

### INPUT SPECIFICATIONS

|                       |                |             |
|-----------------------|----------------|-------------|
| Input Voltage Ranges: | 5 VDC Nominal  | 4.5-6.0 VDC |
|                       | 12 VDC Nominal | 9-18 VDC    |
|                       | 24 VDC Nominal | 18-36 VDC   |
|                       | 48 VDC Nominal | 36-75 VDC   |
| Input Filter          | PI Type        |             |

### OUTPUT SPECIFICATIONS

|                               |                            |          |
|-------------------------------|----------------------------|----------|
| Voltage and Current           | See Selection Chart        |          |
| Load Regulation               |                            |          |
| (singles/duals)               | +/- 0.2% / +/- 2% (25%-FL) |          |
| Line Regulation               | (PMKC03)                   | +/- 0.5% |
| Temperature Coefficient       | +/-0.02%/°C                |          |
| Ripple/Noise(Single/Dual)     | 1% Pk-Pk, max.             |          |
| Voltage Accuracy              | +/- 2%, typ                |          |
| Voltage Balance, Dual Outputs | +/- 2%, typ                |          |
| Short Circuit Protection      | Continuous                 |          |

### GENERAL SPECIFICATIONS

|                      |                     |
|----------------------|---------------------|
| Input-Out Isolation  | 1600VDC             |
| Isolation Resistance | 10000 M Ohms        |
| In/Out Capacitance   | 300 pF              |
| Efficiency           | See Selection Chart |
| Switching Frequency  | 100 KHz             |

### ENVIRONMENTAL SPECIFICATIONS

|                     |                           |
|---------------------|---------------------------|
| Oper. Temperature   | -25 to +71°C *            |
| Cooling             | Free Air Convection       |
| Storage Temperature | -55 to +125°C *           |
| MTBF                | 1090 kHrs                 |
|                     | MIL-HDBK-217F TA=25C (FL) |

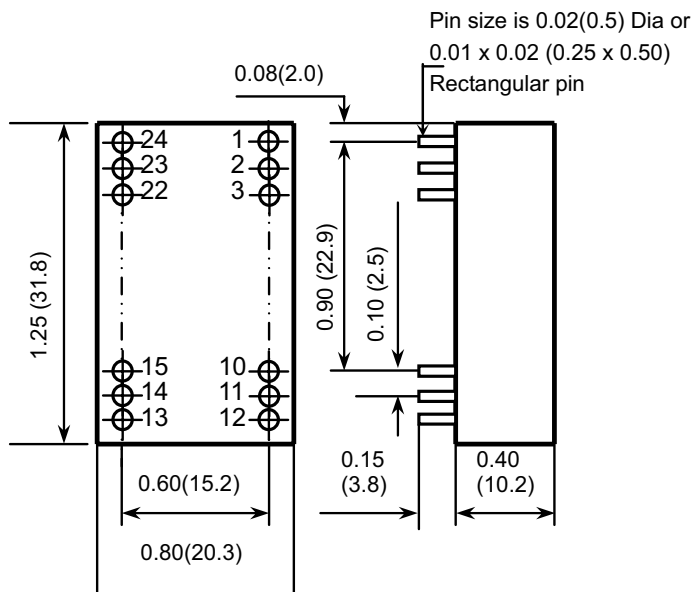
### PHYSICAL SPECIFICATIONS

|               |                              |
|---------------|------------------------------|
| Case Material | Non-Conductive Black Plastic |
| Construction  | Fully Encapsulated           |
| Weight        | 0.5 oz, (14g)                |
| Dimensions    | 1.25"x0.80"x0.40"            |

*All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted*

\* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

**MECHANICAL DIMENSIONS**



| Pin # | Single Outputs | Dual Outputs |
|-------|----------------|--------------|
| 1     | + Input        | + Input      |
| 2     | NC             | - Output     |
| 3     | NC             | Common       |
| 10    | - Output       | Common       |
| 11    | + Output       | + Output     |
| 12    | - Input        | - Input      |
| 13    | - Input        | - Input      |
| 14    | + Output       | + Output     |
| 15    | - Output       | Common       |
| 22    | NC             | Common       |
| 23    | NC             | - Output     |
| 24    | + Input        | + Input      |

**OUTPUT DERATING CURVE**

