

Unit measures 0.24"W x 0.77"L x 0.4"H

- Low Cost
- 0.75 Watt in SIP pkg
- Unregulated Outputs
- 750VDC Isolation
- Non-Conductive Case
- Internal Filters

| Model Number | Output Voltage | Output mAmps | Input Range |
|--------------|----------------|--------------|-------------|
|--------------|----------------|--------------|-------------|

**SINGLE OUTPUT**

|             |        |     |               |
|-------------|--------|-----|---------------|
| DUP75-05S05 | 5 VDC  | 150 | 4.5-5.5 VDC   |
| DUP75-12S05 |        | 150 | 10.8-13.2 VDC |
| DUP75-15S05 |        | 150 | 13.5-16.5 VDC |
| DUP75-24S05 |        | 150 | 21.6-26.4 VDC |
| DUP75-05S12 | 12 VDC | 62  | 4.5-5.5 VDC   |
| DUP75-12S12 |        | 62  | 10.8-13.2 VDC |
| DUP75-15S12 |        | 62  | 13.5-16.5 VDC |
| DUP75-24S12 |        | 62  | 21.6-26.4 VDC |
| DUP75-05S15 | 15 VDC | 50  | 4.5-5.5 VDC   |
| DUP75-12S15 |        | 50  | 10.8-13.2 VDC |
| DUP75-15S15 |        | 50  | 13.5-16.5 VDC |
| DUP75-24S15 |        | 50  | 21.6-26.4 VDC |

**DUAL OUTPUT**

|             |           |       |               |
|-------------|-----------|-------|---------------|
| DUP75-05D05 | +/-5 VDC  | +/-75 | 4.5-5.5 VDC   |
| DUP75-12D05 |           | +/-75 | 10.8-13.2 VDC |
| DUP75-15D05 |           | +/-75 | 13.5-16.5 VDC |
| DUP75-24D05 |           | +/-75 | 21.6-26.4 VDC |
| DUP75-05D12 | +/-12 VDC | +/-30 | 4.5-5.5 VDC   |
| DUP75-12D12 |           | +/-30 | 10.8-13.2 VDC |
| DUP75-15D12 |           | +/-30 | 13.5-16.5 VDC |
| DUP75-24D12 |           | +/-30 | 21.6-26.4 VDC |
| DUP75-05D15 | +/-15 VDC | +/-25 | 4.5-5.5 VDC   |
| DUP75-12D15 |           | +/-25 | 10.8-13.2 VDC |
| DUP75-15D15 |           | +/-25 | 13.5-16.5 VDC |
| DUP75-24D15 |           | +/-25 | 21.6-26.4 VDC |

## Isolated and Unregulated 0.75 WATT Modular DC/DC Converters

## DUP75 series

### INPUT SPECIFICATIONS

|                       |                |               |
|-----------------------|----------------|---------------|
| Input Voltage Ranges: | 5 VDC Nominal  | 4.5-5.5 VDC   |
|                       | 12 VDC Nominal | 10.8-13.2 VDC |
|                       | 15 VDC Nominal | 13.5-16.5 VDC |
|                       | 24 VDC Nominal | 21.6-26.4 VDC |

### OUTPUT SPECIFICATIONS

|                           |                      |
|---------------------------|----------------------|
| Voltage and Current       | See Selection Chart  |
| Load Regulation           | +/- 10% on 5V output |
| 10% - FL                  | +/- 6% on all others |
| Line Regulation           | +/- 1.2%/1% of Vin   |
| Temperature Coefficient   | +/-0.1%/DegC         |
| Ripple/Noise(Single/Dual) | 50mV Pk-Pk, typ      |
| Voltage Stability         | +/-5%, max           |
| Short Circuit Protection  | 1 Second max         |

### GENERAL SPECIFICATIONS

|                      |              |
|----------------------|--------------|
| Input-Out Isolation  | 750VDC       |
| Efficiency           | 78%, typ     |
| Switching Frequency  | 100Khz       |
| Isolation Resistance | 10000 M Ohms |

### ENVIRONMENTAL SPECIFICATIONS

|                     |                         |
|---------------------|-------------------------|
| Oper. Temperature   | -25 to +71 DegC(FL)     |
| Storage Temperature | -55 to +125 DegC *      |
| Maximum Case Temp   | 110 DegC *              |
| MTBF                | 5.5 MHrs                |
|                     | MIL-HDBK 217F TA=25C FL |

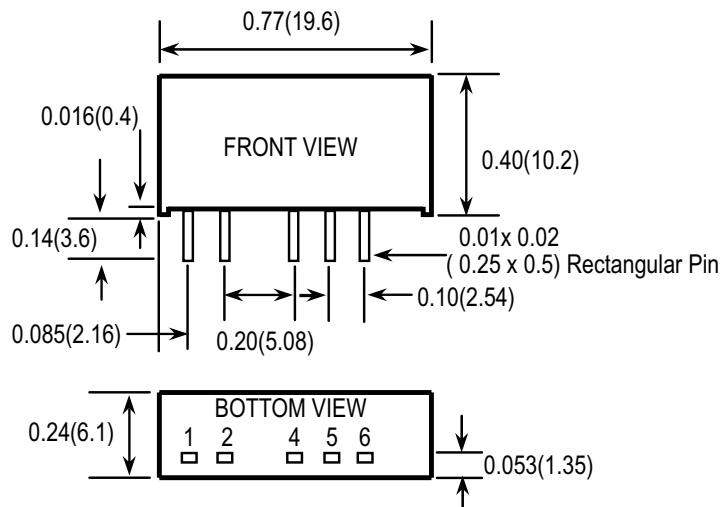
### PHYSICAL SPECIFICATIONS

|               |                              |
|---------------|------------------------------|
| Case Material | Non-Conductive Black Plastic |
| Construction  | Fully Encapsulated           |

*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**



1. All dimensions in Inches (mm)  
Tolerance:  $x.xx \pm 0.02 (x.x \pm 0.5)$   
 $x.xxx \pm 0.01 (x.xx \pm 0.25)$
2. Pin pitch tolerance  $\pm 0.014 (0.35)$

| Pin # | Single Outputs | Dual Outputs |
|-------|----------------|--------------|
| 1     | + Input        | + Input      |
| 2     | - Input        | - Input      |
| 3     | No Pin         | No Pin       |
| 4     | - Output       | - Output     |
| 5     | NC             | Common       |
| 6     | + Output       | + Output     |

**OUTPUT DERATING CURVE**

