

ECONOLINE - DC/DC-Converter

RF Series, 1.25 Watt, DIP8 (Single & Dual Output)

RECOM

Features

- Industry Standard Pinout
- 1kVDC & 2kVDC Isolation
- No Heatsink Required
- No Extern. Components Required
- Custom Solutions Available
- UL94V-0 Package Material

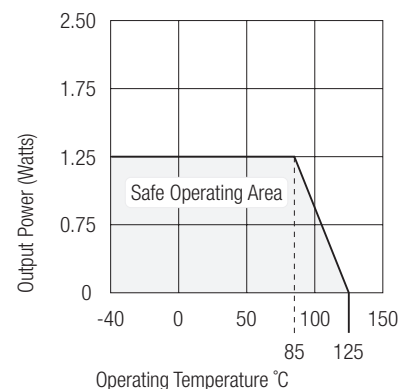


Selection Guide

| Part Number | DIP 8 | (2kV) | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) | Efficiency (%) |
|-------------|-------|-------|-----------------------|----------------------|---------------------|----------------|
| RF-XX3.3S | (H) | | 3.3, 5, 9, 12, 15, 24 | 3.3 | 378 | 70 |
| RF-XX05S | (H) | | 3.3, 5, 9, 12, 15, 24 | 5 | 250 | 70 |
| RF-XX09S | (H) | | 3.3, 5, 9, 12, 15, 24 | 9 | 140 | 78 |
| RF-XX12S | (H) | | 3.3, 5, 9, 12, 15, 24 | 12 | 104 | 79 |
| RF-XX15S | (H) | | 3.3, 5, 9, 12, 15, 24 | 15 | 84 | 80 |
| RF-XX24S | (H) | | 3.3, 5, 9, 12, 15, 24 | 24 | 52 | 80 |
| RF-XX3.3D | (H) | | 3.3, 5, 9, 12, 15, 24 | ±3.3 | 189 | 70 |
| RF-XX05D | (H) | | 3.3, 5, 9, 12, 15, 24 | ±5 | ±125 | 70 |
| RF-XX09D | (H) | | 3.3, 5, 9, 12, 15, 24 | ±9 | ±70 | 75 |
| RF-XX12D | (H) | | 3.3, 5, 9, 12, 15, 24 | ±12 | ±52 | 78 |
| RF-XX15D | (H) | | 3.3, 5, 9, 12, 15, 24 | ±15 | ±42 | 80 |
| RF-XX24D | (H) | | 3.3, 5, 9, 12, 15, 24 | ±24 | ±26 | 80 |

Specifications (Core Operating Area) and Operating Temperature / Derating-Graph

| | | |
|---|---|----------|
| Input Voltage | ±10% | |
| Input Filter | Capacitor Type | |
| Output Voltage Accuracy | ±5% | |
| Line Voltage Regulation | 1,2%/1% V Input | |
| Load Voltage Regulation (10% to 100% full load) | 3.3V output types | 20% max. |
| | 5V output type | 15% max. |
| | 9V, 12V, 15V, 24V output types | 10% max. |
| Ripple and Noise (20MHz limited) | 100mVp-p max. | |
| Efficiency at Full Load | 70% min. | |
| Isolation Voltage | 1.000VDC min. (also available with 2.000VDC, Suffix „H“) | |
| Isolation Resistance (Viso = 500VDC) | 10 GΩ min. | |
| Isolation Capacitance | 30pF min./80pF max. | |
| Short Circuit Protection | 1 Second | |
| Switching Frequency at Full Load | 100kHz typ. | |
| Operating Temperature | -40°C to +85°C (see Graph) | |
| Storage Temperature | -55°C to +125°C | |
| Package Weight | Single output types | 1.8g |
| | Dual output types | 1.9g |



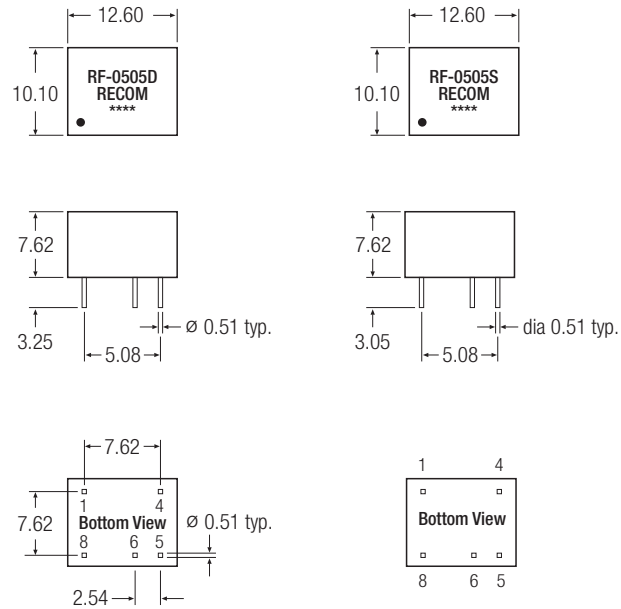
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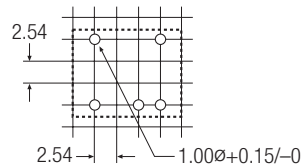
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Package Style and Pinning (mm)

8 PIN DIP Package



Recommended Footprint Details



Pin Connections

| Pin # | Single | Dual |
|-------|--------|-------|
| 1 | -Vin | -Vin |
| 4 | +Vin | +Vin |
| 5 | +Vout | +Vout |
| 6 | NC | Com |
| 8 | -Vout | -Vout |

NC = No Connection

XX.X ± 0.5 mm
XX.XX ± 0.25 mm