

ECONOLINE - DC/DC-Converter

RAA Series, 5 Watt, Unregulated (Single & Dual Output)



RECOM

Selection Guide

Part Number	Input Voltage	Output Voltage	Output Current	Input Current		Efficiency
				Full Load	No Load	
30 x 30 mm	(VDC)	(VDC)	(mA)	(mA)		(%)
RAA-0505S	5	5	1000	1250	80	80
RAA-0512S	5	12	417	1150	80	87
RAA-0515S	5	15	333	1150	80	87
RAA-0505D	5	±5	±500	1250	80	80
RAA-0512D	5	±12	±208	1150	80	87
RAA-0515D	5	±15	±167	1150	80	87
RAA-1205S	12	5	1000	496	40	84
RAA-1212S	12	12	417	479	40	87
RAA-1215S	12	15	333	479	40	87
RAA-1205D	12	±5	±500	496	40	84
RAA-1212D	12	±12	±208	479	40	87
RAA-1215D	12	±15	±167	479	40	87
RAA-2405S	24	5	1000	261	20	83
RAA-2412S	24	12	417	245	20	85
RAA-2415S	24	15	333	239	20	87
RAA-2405D	24	±5	±500	261	20	83
RAA-2412D	24	±12	±208	245	20	85
RAA-2415D	24	±15	±167	239	20	87

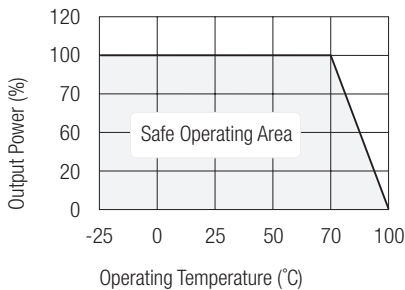
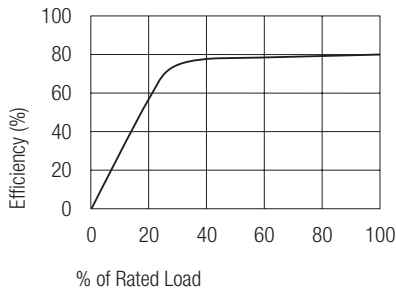


Features

- 1kVDC Isolation
- Efficiency to 87%
- Internal Filtering
- Dual In-Line Package
- No External Components Required
- 100% Burned In
- Low Noise
- UL94V-0 Package Material

Specifications (core operating area) and Operating Temperature / Derating-Graph

Voltage Setpoint Accuracy	±3% max.
Temperature Coefficient	±0.03%/°C
Ripple and Noise (20MHz BW)	100mVp-p max.
Line Regulation (for 1% change in input voltage)	±1.2% max.
Load Regulation (for output load current change from 20% to 100%)	±3% max.
Short Circuit Protection	Short Term
Input Voltage Range	±10% min.
Input Filter	Pi Network
Efficiency	80% - 87%
Isolation Voltage (tested for 60 seconds)	1.000VDC min.
Isolation Resistance	10 ⁹ Ω min.
Switching Frequency	60kHz min.
Isolation Capacitance	80pf max.
Operating Temperature	-25°C to +70°C (see Graph)
Storage Temperature	-55°C to +100°C
Cooling	Free-Air Convection
Case Material	Non-Conductive Plastic



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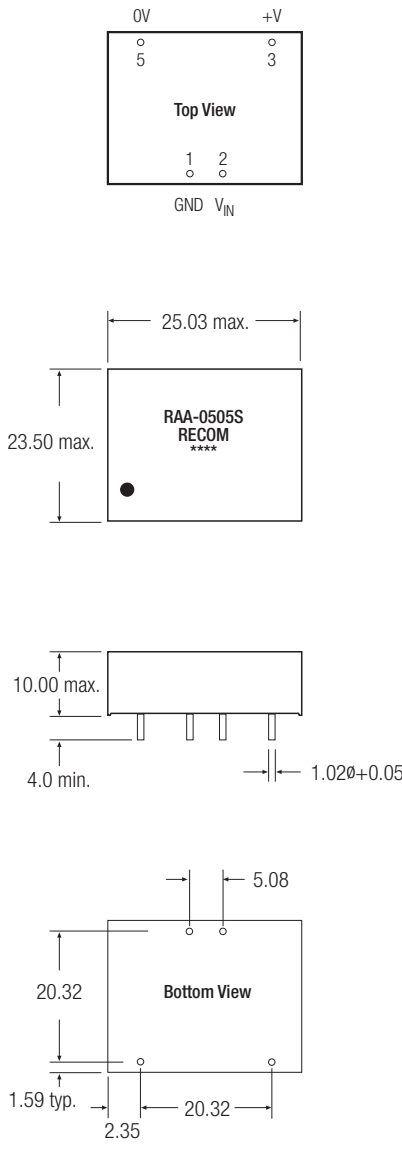
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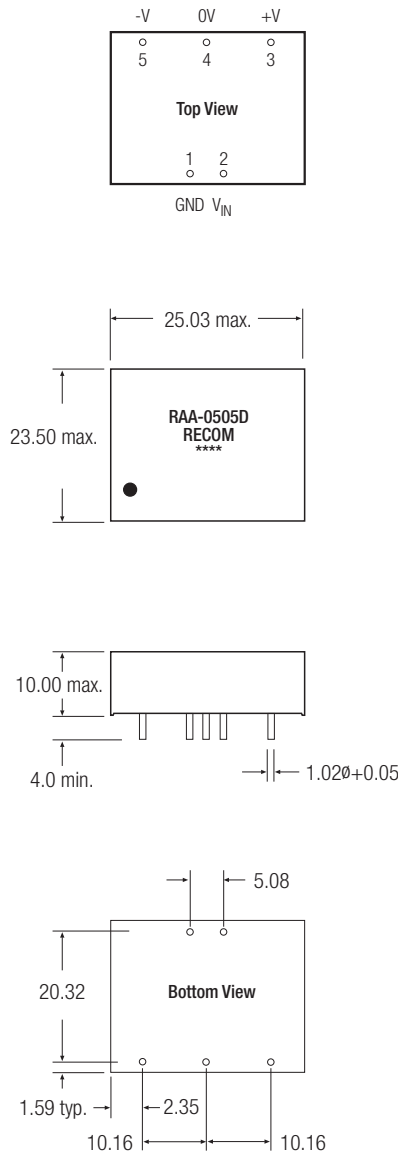
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Package Style and Pinning (mm)

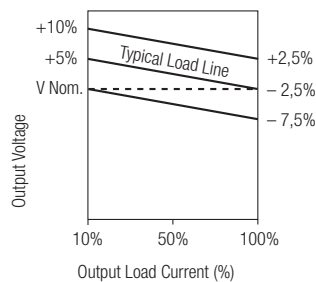
Single Output Type



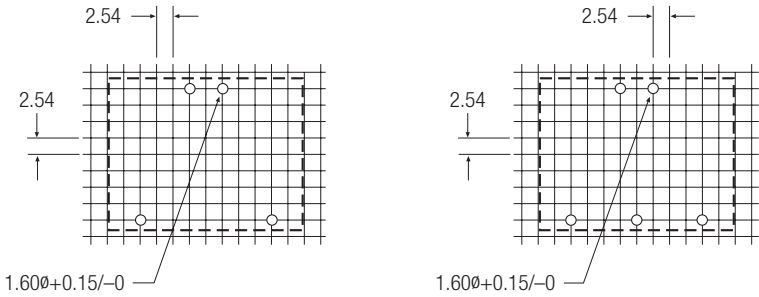
Dual Output Type



Tolerance Envelope



Recommended Footprint Details



XX.X $\pm$ 0.5 mm
XX.XX $\pm$ 0.25 mm