

## IK Series



- Single Unregulated Output
- SIP or DIP Package
- 1.0kV DC Isolation
- Optional 3.0kV DC Isolation
- Small Package Sizes
- -40 °C to +85 °C Operation
- 3 Year Warranty

### Specification

#### Input

- Input Voltage Range • Nominal  $\pm 10\%$
- Input Reflected Ripple Current • 20 mA pk-pk through 12  $\mu$ H inductor 5Hz to 20 MHz
- Input Reverse Voltage Protection • None

#### Output

- Output Voltage • See table
- Minimum Load • None<sup>(3)</sup>
- Line Regulation • 1.2%/1%  $\Delta$  Vin
- Load Regulation • 10% 20-100% load change (3.3 V models  $\pm 20\%$ )
- Setpoint Accuracy •  $\pm 3\%$
- Ripple & Noise • 100 mV pk-pk max, 20 MHz bandwidth
- Temperature Coefficient • 0.02%/°C
- Maximum Capacitive Load • 100  $\mu$ F

#### General

- Efficiency • See table
- Isolation Voltage • 1000 VDC minimum<sup>(2)</sup>
- Isolation Resistance •  $10^9 \Omega$
- Isolation Capacitance • 60 pF typical
- Switching Frequency • Variable, 80 KHz typical
- MTBF • >1.1 Mhrs to MIL-HDBK-217F at 25 °C, GB

#### Environmental

- Operating Temperature • -40 °C to +85 °C
- Storage Temperature • -40 °C to +125 °C
- Case Temperature • 100 °C max
- Cooling • Convection-cooled

#### Safety

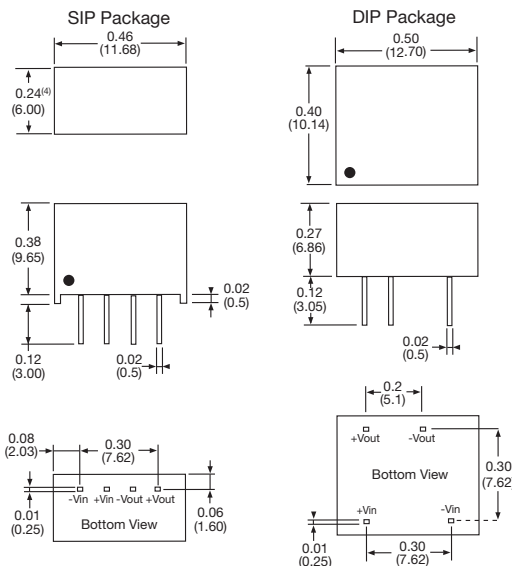
- Safety Agency • CE & UKCA meets all applicable directives

#### Notes

1. For DIP package, replace 'S' in model number with 'D'.
2. Add suffix '-H' to model number for 3000 VDC isolation.
3. Operation at no load will not damage unit but it may not meet all specifications.
4. All dimensions in inches (mm).
5. Pin pitch tolerance:  $\pm 0.014$  ( $\pm 0.35$ )
6. Case tolerance:  $\pm 0.02$  ( $\pm 0.5$ )
7. Weight: SIP 0.003 lbs (1.4 g), DIP 0.004 lbs (1.8 g)

Input Voltage	No Load Input Current	Output Voltage	Output Current	Efficiency	Model Number <sup>(1,2)</sup>
5 VDC	20 mA	3.3 V	75.70 mA	66%	IK0503SA
	20 mA	5.0 V	50.00 mA	66%	IK0505SA
	20 mA	7.2 V	34.72 mA	66%	IK0507SA
	20 mA	9.0 V	27.77 mA	68%	IK0509SA
	20 mA	12.0 V	20.83 mA	68%	IK0512SA
	20 mA	15.0 V	16.67 mA	68%	IK0515SA
	20 mA	18.0 V	13.88 mA	68%	IK0518SA
12 VDC	20 mA	24.0 V	10.41 mA	70%	IK0524SA
	15 mA	3.3 V	75.70 mA	65%	IK1203SA
	15 mA	5.0 V	50.00 mA	65%	IK1205SA
	15 mA	7.2 V	34.72 mA	68%	IK1207SA
	15 mA	9.0 V	27.77 mA	64%	IK1209SA
	15 mA	12.0 V	20.83 mA	62%	IK1212SA
	15 mA	15.0 V	16.67 mA	67%	IK1215SA
24 VDC	15 mA	18.0 V	13.88 mA	67%	IK1218SA
	15 mA	24.0 V	10.41 mA	54%	IK1224SA
	8 mA	3.3 V	75.70 mA	60%	IK2403SA
	8 mA	5.0 V	50.00 mA	62%	IK2405SA
	8 mA	7.2 V	34.72 mA	61%	IK2407SA
	8 mA	9.0 V	27.77 mA	62%	IK2409SA
	8 mA	12.0 V	20.83 mA	56%	IK2412SA
24 VDC	8 mA	15.0 V	16.67 mA	56%	IK2415SA
	8 mA	18.0 V	13.88 mA	55%	IK2418SA
	8 mA	24.0 V	10.41 mA	59%	IK2424SA

### Mechanical Details



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