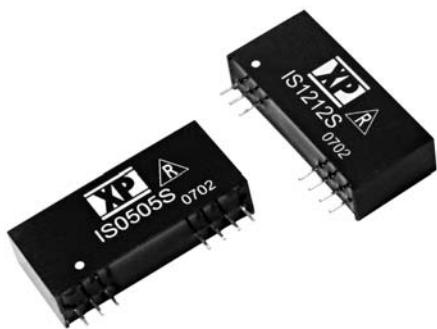


3 Watts

IS Series



- Regulated Single Output
- SIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- Continuous Short Circuit Protection
- Non-conductive Black Plastic Case
- MTBF >1.1 MHrs

Specification

Input

- | | |
|-------------------------|--|
| Input Voltage Range | • Nominal ±10% |
| Input Current (no load) | • See table |
| Input Reflected Ripple | • 20 mA pk-pk through 12 µH inductor, 5 Hz to 20 MHz |

Output

- | | |
|--------------------------|---|
| Output Voltage | • See table |
| Minimum Load | • No minimum load required |
| Line Regulation | • ±0.5% max |
| Load Regulation | • ±0.5% max (0% to full load)
±1.5% for 3.3 V versions |
| Setpoint Accuracy | • ±2% max |
| Ripple & Noise | • 75 mV pk-pk (20 MHz bandwidth) |
| Temperature Coefficient | • ±0.02%/°C |
| Short Circuit Protection | • Continuous with auto recovery |
| Maximum Capacitive Load | • 470 µF |

General

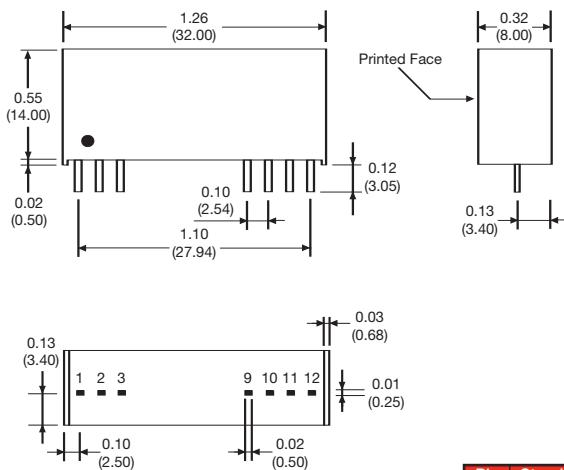
- | | |
|-----------------------|---------------------------------|
| Efficiency | • See table |
| Isolation Voltage | • 1000 VDC (3000 VDC -H option) |
| Isolation Capacitance | • 60 pF |
| Switching Frequency | • 50 kHz typical |
| MTBF | • >1.1 MHrs to MIL-STD 217F |

Environmental

- | | |
|-----------------------|--|
| Operating Temperature | • -25 °C to +70 °C |
| Storage Temperature | • -40 °C to +125 °C |
| Case Temperature | • +100 °C max |
| Cooling | • Convection-cooled |
| Derating | • Derate from 100% load at +70 °C to 0% load at +85 °C |
| Humidity | • Up to 90%, non-condensing |

Input Voltage	No Load Input Current	Output Voltage	Output Current	Efficiency	Model Number ⁽¹⁾
5 V	100 mA	3.3 V	600 mA	53%	IS0503SA
	100 mA	5.0 V	600 mA	62%	IS0505SA
	100 mA	9.0 V	333 mA	67%	IS0509SA
	100 mA	12.0 V	250 mA	70%	IS0512SA
	100 mA	15.0 V	200 mA	68%	IS0515SA
	120 mA	24.0 V	125 mA	64%	IS0524SA
12 V	60 mA	3.3 V	600 mA	55%	IS1203SA
	60 mA	5.0 V	600 mA	60%	IS1205SA
	60 mA	9.0 V	333 mA	67%	IS1209SA
	60 mA	12.0 V	250 mA	69%	IS1212SA
	60 mA	15.0 V	200 mA	70%	IS1215SA
	60 mA	24.0 V	125 mA	68%	IS1224SA
24 V	30 mA	3.3 V	600 mA	54%	IS2403SA
	30 mA	5.0 V	600 mA	61%	IS2405SA
	30 mA	9.0 V	333 mA	65%	IS2409SA
	30 mA	12.0 V	250 mA	70%	IS2412SA
	30 mA	15.0 V	200 mA	71%	IS2415SA
	30 mA	24.0 V	125 mA	71%	IS2424SA

Mechanical Details



Pin	Standard	'H' Versions
1	+Vin	+Vin
2	N.C.	-Vin
3	N.C.	N.C.
9	N.C.	N.C.
10	-Vout	-Vout
11	+Vout	+Vout
12	-Vin	N.C.

Notes

- Add suffix '-H' to model number for 3000 VDC isolation.
- All dimensions in inches (mm).