

2 Watts

IST Series

xppower.com **XP**

DC-DC



- Single Output
- SMD Package
- Industry Standard Pinout
- 1000 VDC Isolation
- MTBF >3.5 MHrs
- -40 °C to +85 °C Operation
- 3 Year Warranty

Specification

Input

- Input Voltage Range • Nominal $\pm 10\%$
- Input Reverse Voltage Protection • None

Output

- Output Voltage • See table
- Minimum Load • $10\%^{(2)}$
- Line Regulation • $1.2\%/1\% \Delta V_{in}$
- Load Regulation • 7.5% max for a 10-100% load change
- Setpoint Accuracy • 100-110% of nominal at 10% load
- Ripple & Noise • 200 mV pk-pk 20 MHz bandwidth
- Temperature Coefficient • $0.03\%/^{\circ}\text{C}$

General

- Efficiency • See table
- Isolation Voltage • 1000 VDC
- Isolation Resistance • $10^9 \Omega$
- Switching Frequency • 500 kHz typical at nominal input, full load
- MTBF • >3.5 MHrs to MIL-HDBK-217F at 25 °C, GB

Environmental

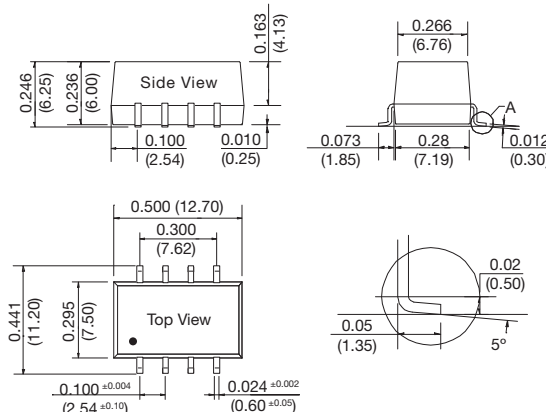
- Operating Temperature • -40 °C to +85 °C
- Storage Temperature • -55 °C to +125 °C
- Case Temperature • 105 °C max
- Cooling • Convection-cooled
- Lead Temperature • 260 °C, 0.06 in (1.5 mm) from case, 10 s

Input Voltage	Output Voltage	Output Current	Efficiency (typ)	Model Number ⁽¹⁾
5 VDC	15.0 V	133 mA	79%	IST0515A
24 VDC	5.0 V	400 mA	78%	IST2405A ^{†^}
	12.0 V	167 mA	80%	IST2412A ^{†^}

Notes

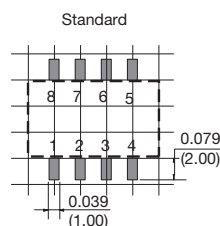
1. For alternative pin out, add suffix '-X' to end of part number eg. IST2415A-X.
2. Operation at no load will not damage device but may not meet all specifications.

Mechanical Details



Recommended footprint

Top view grid: 0.1 x 0.1 in (2.54 x 2.54 mm)



Pin	Standard
1	-Vin
2	+Vin
4	0V
5	+Vo
3,6,7	N.C.
8	N.C.

N.C. Not connected

Notes

1. All dimensions in inches (mm)
2. Tolerance: ± 0.010 (± 0.25)
3. Weight: 0.004 lbs (1.7 g)
4. Pin tolerance: ± 0.004 (± 0.10 mm)