



13DS3 SERIES

1000VDC 1WATT SINGLE OUTPUT SURFACE MOUNT DC-DC CONVERTER

FEATURES

- 14 PIN SMD PACKAGE.
- 1000VDC ISOLATION.
- UNREGULATED OUTPUT TYPES.
- UL 94V-0 PACKAGE MATERIAL.
- WIND TEMPERATURE PERFORMANCE AT FULL 1 WATT LOAD -40°C TO 85°C



GENERAL SPECIFICATIONS

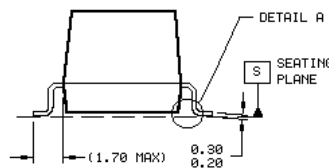
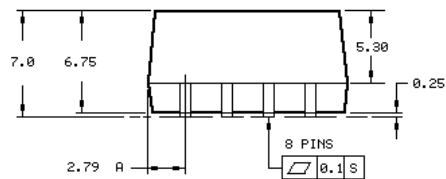
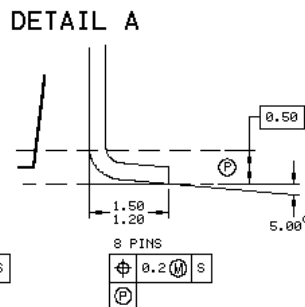
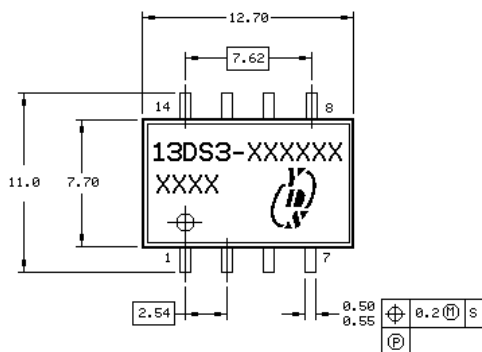
- OUTPUT RIPPLE(20MHz Band limited)
 - 5V OUTPUT TYPES : 85mVp-p MAX
 - 9V OUTPUT TYPES : 75mVp-p MAX
 - 12V OUTPUT TYPES : 65mVp-p MAX
 - 15V OUTPUT TYPES : 76mVp-p MAX
- ISOLATION RESISTANCE :1000VDC MIN
- SWITCHING FREQUENCY :110KHz TYP.
- OPERATING TEMPERATURE :-40°C TO 85°C
- EFFICIENCY :70% TYP

ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE RANGE :±10%
- OUTPUT VOLTAGE TOLERANCE :±5%
- LOAD REGULATION
 - 5V & 9V OUTPUT TYPES :15% & 9% MAX
 - 12V & 15V OUTPUT TYPES :7.5% & 7% MAX
- LINE VOLTAGE REGULATION (10% to 100% full load) :1.2%/1% of V_{IN} MAX

PART NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT CURRENT (mA)	EFFICIENCY (%)	ISOLATION CAPACITANCE (pF)
13DS3-05S05N	5	5	200	294	68	35
13DS3-05S09N	5	9	111	267	75	43
13DS3-05S12N	5	12	83	260	77	42
13DS3-05S15N	5	15	66	256	78	44
13DS3-12S05N	12	5	200	124	67	47
13DS3-12S09N	12	9	111	114	73	77
13DS3-12S12N	12	12	83	113	74	88
13DS3-12S15N	12	15	66	111	75	95

MARKINGS AND DIMENSIONS



PIN CONNECTION

PIN	SINGLE OUTPUT
1	-INPUT
3	+INPUT
7	-OUTPUT
8	+OUTPUT
14	NC

Dimensions: mm

Unless otherwise specified, all tolerances are ±0.13