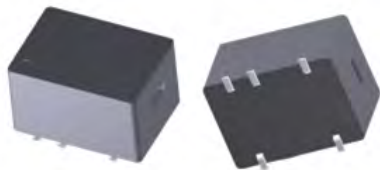


1W & 2W DC/DC Converters

SMD Unregulated 1Watt and 2Watt DC/DC Converters



Product Features:

- DC/DC 1W and 2W Unregulated Converters
- 1.5KVdc Isolation Voltage
- Functional Insulation
- Operating Temperature -40C to +105C
- High Efficiency & Low Ripple/Noise
- Continuous Short-Circuit Protection
- Meets UL/EN62368-1

1 Watt, 1.5KV

Part Number	Input Voltage ¹	Output Voltage	Input Current No-Load/Full-Load	Max Output Current	Output Ripple/Noise ²	Efficiency @ Full Load
DC11-V0303SLF	3.3V	3.3V	5 / 370mA	300mA	50mV	81%
DC11-V0305SLF	3.3V	5V	7 / 360mA	200mA	40mV	85%
DC11-V0312SLF	3.3V	12V	8 / 340mA	84mA	25mV	89%
DC11-V0503SLF	5V	3.3V	3 / 240mA	300mA	50mV	82%
DC11-V0505SLF	5V	5V	4 / 230mA	200mA	50mV	86%
DC11-V0512SLF	5V	12V	7 / 230mA	84mA	30mV	90%
DC11-V1203SLF	12V	3.3V	2 / 100mA	300mA	65mV	82%
DC11-V1205SLF	12V	5V	2 / 100mA	200mA	50mV	87%
DC11-V1212SLF	12V	12V	4 / 100mA	84mA	25mV	90%

2 Watt, 1.5KV

Part Number	Input Voltage ¹	Output Voltage	Input Current No-Load/Full-Load	Max Output Current	Output Ripple/Noise ²	Efficiency @ Full Load
DC21-V0303SLF	3.3V	3.3V	5 / 760mA	600mA ³	100mV	77%
DC21-V0305SLF	3.3V	5V	5 / 700mA	400mA ³	70mV	83%
DC21-V0312SLF	3.3V	12V	10 / 700mA	167mA	50mV	87%
DC21-V0503SLF	5V	3.3V	5 / 480mA	600mA ³	100mV	80%
DC21-V0505SLF	5V	5V	5 / 480mA	400mA	60mV	85%
DC21-V0509SLF	5V	9V	7 / 440mA	220mA	60mV	89%
DC21-V0512SLF	5V	12V	10 / 440mA	167mA	40mV	89%
DC21-V1203SLF	12V	3.3V	5 / 200mA	600mA ³	60mV	82%
DC21-V1205SLF	12V	5V	5 / 200mA	400mA	60mV	86%
DC21-V1212SLF	12V	12V	5 / 200mA	167mA	30mV	90%

Notes:

¹Maximum input voltage range +/-10% from nominal

²Output ripple/noise tested with a 4.7uF capacitor at input and 10uF capacitor at output of the device @ 20Mhz BW

³Maximum current derating above 85C by 20% at 105C

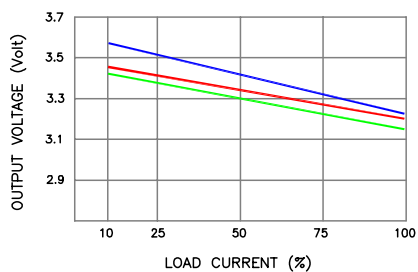
⁴Line regulation: +/-1.3% per 1% input change for 3.3V versions and less than +/-1.2% for all other devices

Output Voltage vs. Load

1W

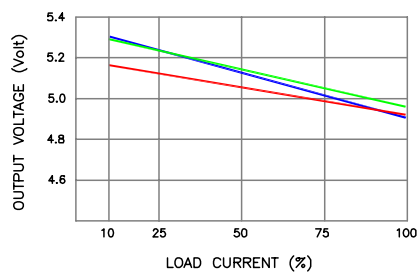
3.3Vin — 5Vin — 12Vin —

3.3V OUTPUT VOLTAGE VS. LOAD



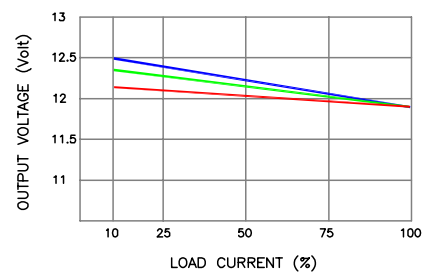
DC11-V0303SLF
DC11-V0503SLF
DC11-V1203SLF

5V OUTPUT VOLTAGE VS. LOAD



DC11-V0305SLF
DC11-V0505SLF
DC11-V1205SLF

12V OUTPUT VOLTAGE VS. LOAD

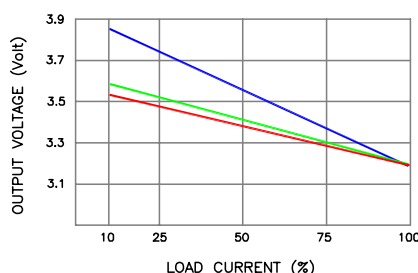


DC11-V0312SLF
DC11-V0512SLF
DC11-V1212SLF

2W

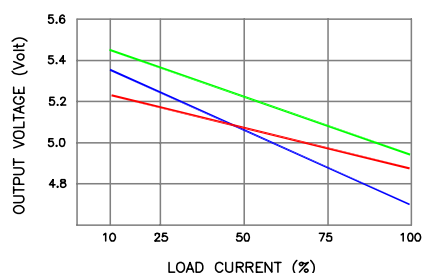
3.3Vin — 5Vin — 12Vin —

3.3V OUTPUT VOLTAGE VS. LOAD



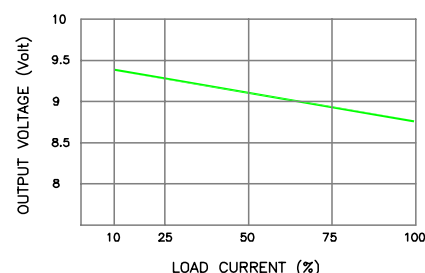
DC21-V0303SLF
DC21-V0503SLF
DC21-V1203SLF

5V OUTPUT VOLTAGE VS. LOAD



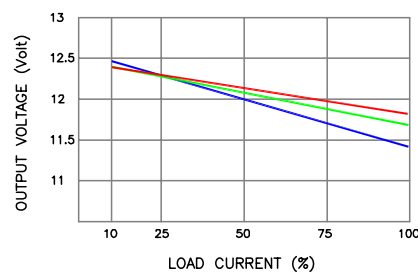
DC21-V0305SLF
DC21-V0505SLF
DC21-V1205SLF

9V OUTPUT VOLTAGE VS. LOAD



DC21-V0509SLF

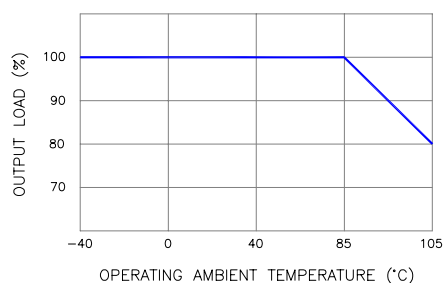
12V OUTPUT VOLTAGE VS. LOAD



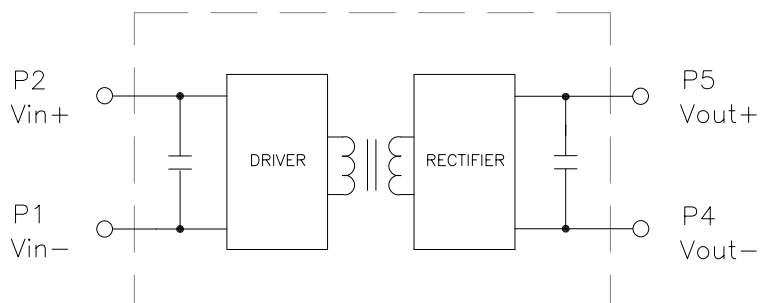
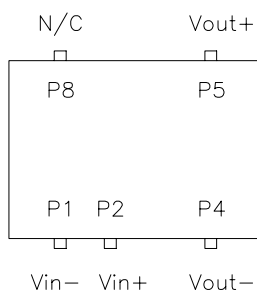
DC21-V0312SLF
DC21-V0512SLF
DC21-V1212SLF

Power Derating Curve

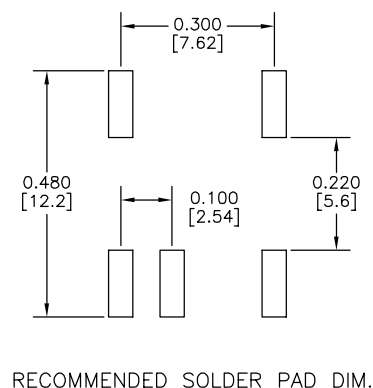
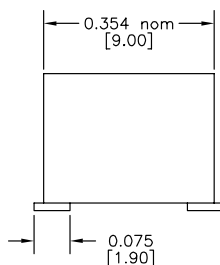
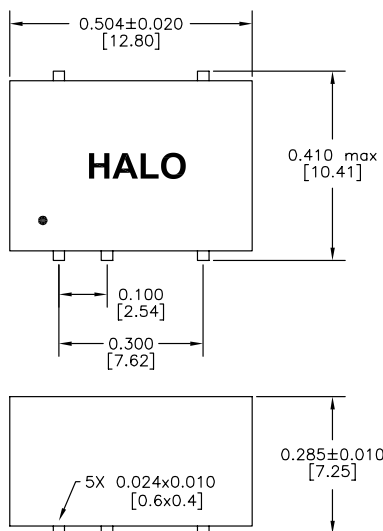
OUTPUT POWER DERATING



Applicable Part Numbers:
DC21-V0303SLF
DC21-V0305SLF
DC21-V0503SLF
DC21-V1203SLF



Mechanical



RECOMMENDED SOLDER PAD DIM.

DIMENSION: inch [mm]
CO-PLANARITY: 0.004 [0.1]



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HALO® Electronics is a leading supplier of high quality communication magnetics including signal transformers, filters, CMR chokes, PoE power transformers, DC/DC isolation modules, and integrated Ethernet connectors. HALO's high quality and competitively priced leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories.