

LAN C-W SERIES - 5 WATTS**SURFACE MOUNT DEVICE**

High Power Density, Surface Mount Package

FEATURES

- Wide Input Voltage Range (2:1/ 4:1)
- Regulated Outputs
- Continuous Short Circuit Protection
- 1000VDC I/O Isolation
- Metallic case for five sided shielding
- Industry SMD Package
- Pi-Input Filter

**THE LAN C-W 5 WATT SERIES FROM WALL INDUSTRIES**

The LANCW SMD Series of DC/DC converters offers up to 5 Watts of output power. The LANCW SMD Series is intended to provide power and isolation for applications requiring high power density.

SPECIFICATIONS: LAN C-W SERIES 5 WATTS

All specifications apply @ +25 C ambient unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range.....9-18,18-36,36-75,9-36,18-75VDC
 Nominal Input.....12,24,48VDC
 Input Filter.....Pi-Input Filter

OUTPUT SPECIFICATIONS

Output Current.....See Table
 Voltage Tolerance.....±2%
 Line Regulation.....±0.2%
 Load Regulation.....Singles: ±0.2%, Duals: ±0.5%
 Ripple/Noise (20MHz BW).....50mV p-p typical
 Short Circuit Protection.....Continuous

Due to advances in technology, specifications subject to change without notice.

GENERAL SPECIFICATIONS

Efficiency (at full load).....80% typical
 Isolation Voltage (input to output).....1000VDC min.
 Isolation Resistance.....10⁹ Ohms
 Switching Frequency.....300kHz

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....see notes 2 & 3
 Storage Temperature.....-55 to +105°C
 Case Temperature.....100°C max.
 Humidity.....20% to 95% R.H. (non-condensing)
 Cooling.....Free Air Convection
 MTBF.....MIL217F 1.131x10⁶ Hours

PHYSICAL SPECIFICATIONS

Shielding.....Five-Sided
 Dimensions.....1.25 x 0.8 x 0.4"
 Weight.....1.0 oz.
 Case MaterialNickel-coated copper, non-conductive baseplate

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)	Model Number
9-18	3.3	1000	76	LANC1233W5S
	5	1000	77	LANC1205W5S
	12	470	80	LANC1212W5S
	15	400	81	LANC1215W5S
	± 5	± 500	78	LANC1205DW5S
	± 12	± 230	81	LANC1212DW5S
	± 15	± 190	81	LANC1215DW5S
18-36	3.3	1000	75	LANC2433W5S
	5	1000	77	LANC2405W5S
	12	470	81	LANC2412W5S
	15	400	81	LANC2415W5S
	± 5	± 500	80	LANC2405DW5S
	± 12	± 230	84	LANC2412DW5S
	± 15	± 190	81	LANC2415DW5S
36-75	3.3	1000	74	LANC4833W5S
	5	1000	77	LANC4805W5S
	12	470	82	LANC4812W5S
	15	400	81	LANC4815W5S
	± 5	± 500	78	LANC4805DW5S
	± 12	± 230	82	LANC4812DW5S
	± 15	± 190	81	LANC4815DW5S
9-36	3.3	1000	74	LANC2433UW5S
	5	1000	81	LANC2405UW5S
	12	470	81	LANC2412UW5S
	15	400	80	LANC2415UW5S
	± 5	± 500	78	LANC2405DUW5S
	± 12	± 230	83	LANC2412DUW5S
	± 15	± 190	80	LANC2415DUW5S
18-75	3.3	1000	73	LANC4833UW5S
	5	1000	77	LANC4805UW5S
	12	470	81	LANC4812UW5S
	15	400	79	LANC4815UW5S
	± 5	± 500	78	LANC4805DUW5S
	± 12	± 230	80	LANC4812DUW5S
	± 15	± 190	79	LANC4815DUW5S

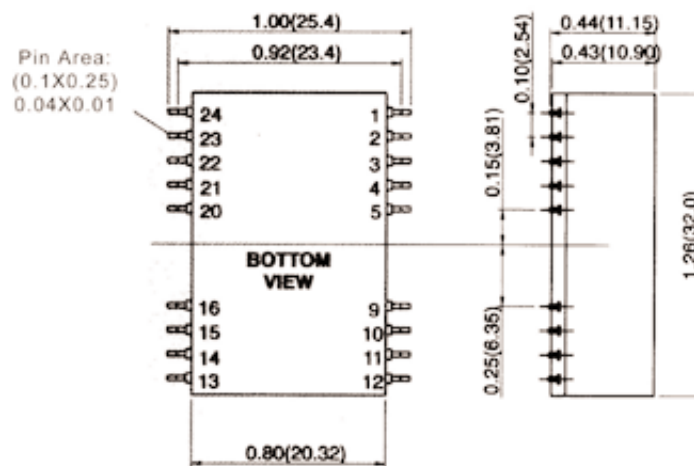
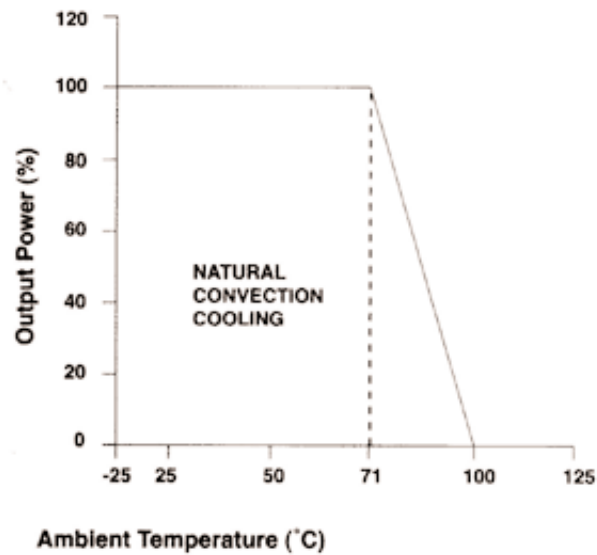
PIN CONNECTIONS		
Pin #	Single	Dual
1	NC	NC
2	- Vin	- Vin
3	- Vin	- Vin
4	NC	NC
5	NC	NC
9	NC	Com
10	NC	NC
11	NC	-Vout
12	NC	NC
13	NC	NC
14	+Vout	+Vout
15	NC	NC
16	-Vout	Com
20	NC	NC
21	NC	NC
22	+ Vin	+ Vin
23	+ Vin	+ Vin
24	NC	NC

*NC: NO CONNECTION

Note:

1. All case and pin-to-pin dimensions reference only unless otherwise noted.
2. -25 to 71°C standard.
3. 2:1 input, -40°C to +85°C and 4:1 input, -40°C to +71°C operating temperature ranges available, add suffix "I".

POWER DERATING



ALL DIMENSIONS IN INCHES(mm)
PIN PITCH TOLERANCE $\pm 0.014(0.35)$