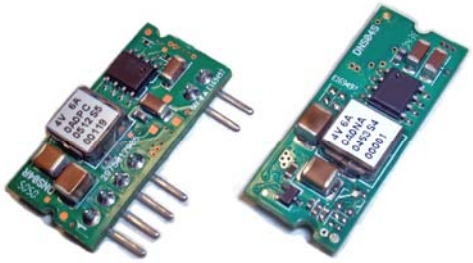
DELPHI SERIES



FEATURES

- High Efficiency:
  89.5% @ 12Vin, 3.3V/6A out
- Small size and low profile:
  1.10” x 0.45” x 0.29” (SMD)
  1.00” x 0.50” x 0.26” (SIP)
- Standard footprint
- Voltage and resistor-based trim
- Pre-bias startup
- Voltage tracking
- No minimum load required
- Output voltage programmable from 0.75Vdc to 5.0Vdc via external resistors
- Fixed frequency operation
- Input UVLO, Output OTP, OCP
- Remote ON/OFF
- ISO 9001, TL 9000, ISO 14001, QS9000, OHSAS18001 certified manufacturing facility
- UL/cUL 60950-1 (US & Canada) Recognized, and TUV (EN60950-1) Certified
- CE mark meets 73/23/EEC and 93/68/EEC directives

Delphi series DNS10, Non-Isolated Point of Load DC/DC Power Modules: 8.3-14Vin, 0.75V-5.0Vout, 6A out

The Delphi series DNS10, 8.3V~14V input, single output, non-isolated point of load DC/DC converters are the latest offering from a world leader in power systems technology and manufacturing -- Delta Electronics, Inc. The DNS series provides a programmable output voltage from 0.75V to 5.0V using an external resistor. The DNS converters have flexible and programmable tracking and sequencing features to enable a variety of startup voltages as well as sequencing and tracking between power modules. This product family is available in a surface mount or SIP package and provides up to 6A of current in an industry standard footprint. With creative design technology and optimization of component placement, these converters possess outstanding electrical and thermal performance and extremely high reliability under highly stressful operating conditions.

OPTIONS

- Negative On/Off logic
- Tracking feature
- Surface mount and SIP packages

APPLICATIONS

- Telecom/DataCom
- Distributed power architectures
- Servers and workstations
- LAN/WAN applications
- Data processing applications

Delta Electronics, Inc.

SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS		
Input Voltage	Typical	12V (8.3V ~ 14.0V)	**Voltage Adjustment**	Typical	0.75V ~ 5.0V
Switching Frequency	Typical	300KHz	**Line Regulation**	Typical	0.3%
Turn-on time	Typical	7 mS	**Load Regulation**	Typical	0.4%
OTP	Typical	120°C	**Ripple & Noise**	Typical	30 mV
Size	Typical	1.10" x 0.45" x 0.29" (SMD) 1.00" x 0.50" x 0.26" (SIP)	**Current Limits**	Typical	200%

PART NUMBERING SYSTEM

DNS	10	S	0A0	S	06	P	F	D
Product Family	**Input Voltage**	**Number of Outputs**	**Output Voltage**	**Package Type**	**Output Current**	**On/Off Logic**		**Option Code**
DNS – 6A DNM – 10A DNL – 16A	04 - 2.8V~5.5V 10 – 8.3V~ 14V 12 - 10V~14V	S - Single	0A0 - Programmable	R - SIP S - SMD	06 - 6A	N - Negative P - Positive	F- RoHS 6/6 (Lead Free)	D- Standard functions

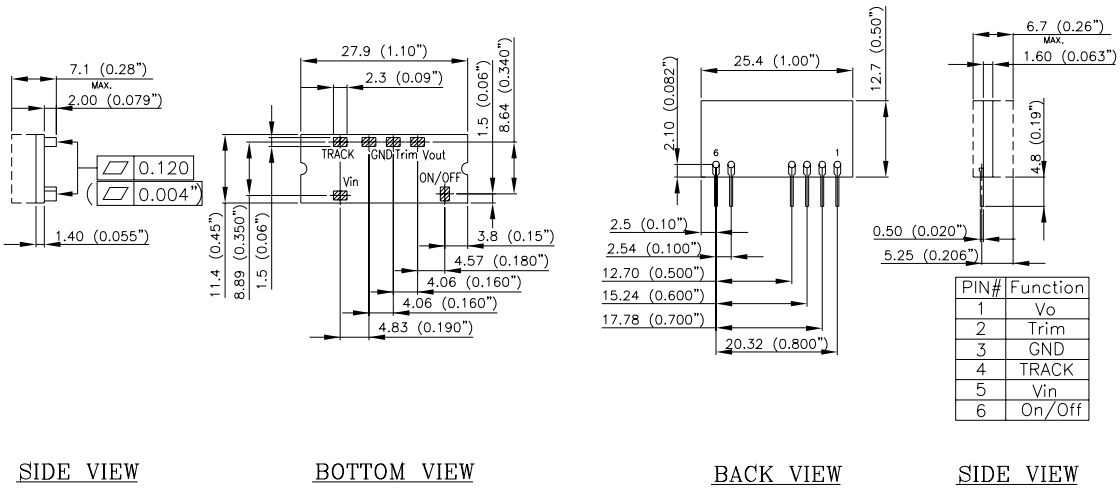
MODEL LIST

Model Name	Package	Input Voltage	Output Voltage	Output Current	On/Off Logic	Efficiency 12Vin, 3.3Vout @ full load
DNS10S0A0S06PFD	SMD	8.3V ~ 14Vdc	0.75V ~ 5.0Vdc	6A	Positive	89.5%
DNS10S0A0S06NFD	SMD	8.3V ~ 14Vdc	0.75V ~ 5.0Vdc	6A	Negative	89.5%
DNS10S0A0R06PFD	SIP	8.3V ~ 14Vdc	0.75V ~ 5.0Vdc	6A	Positive	89.5%
DNS10S0A0R06NFD	SIP	8.3V ~ 14Vdc	0.75V ~ 5.0Vdc	6A	Negative	89.5%

MECHANICAL DRAWING

SMD PACKAGE

SIP PACKAGE



NOTES:
DIMENSIONS ARE IN MILLIMETERS AND (INCHES)
TOLERANCES: X.Xmm±0.5mm(X.XX in.±0.02 in.)
X.XXmm±0.25mm(X.XXX in.±0.010 in.)

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WARRANTY

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