

Champs-Tech DC1929A PNs for Analog Ref Designs & Demo Boards

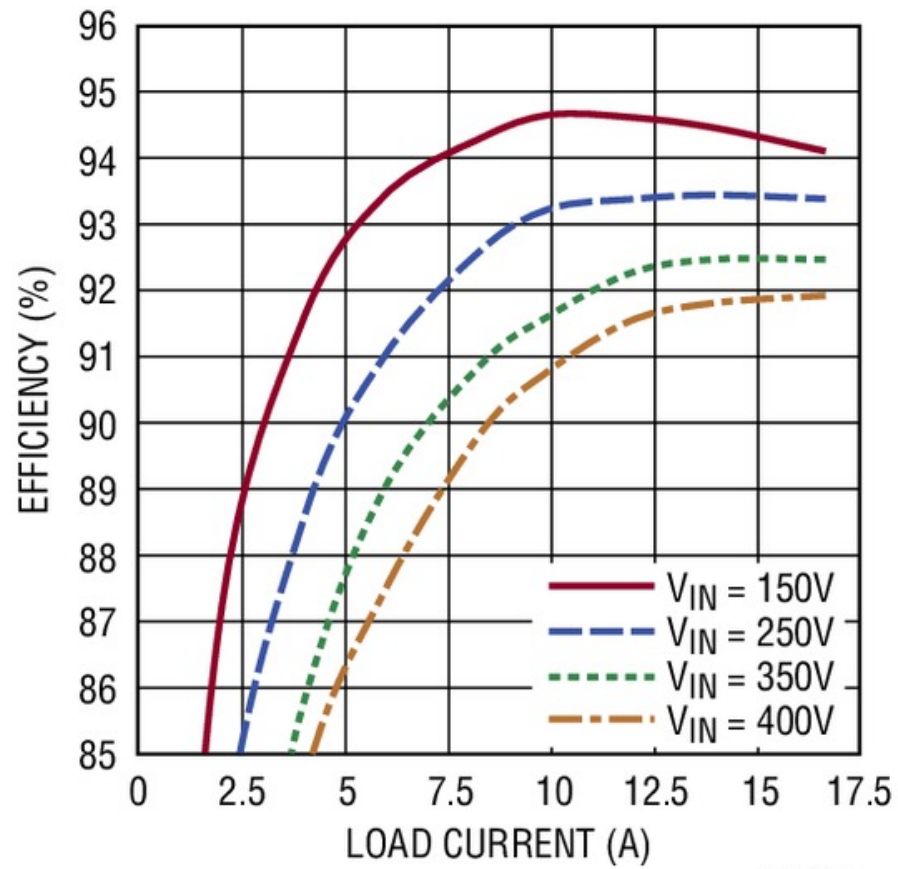


- Forward Active Clamp Topology -
- Highest Efficiency. Planar Design.
- Aggressive Interleave planar construction -- lowest achievable Leakage Inductance.
- Multilayer PCB optimization for lowest AC resistance and Proximity Effect.
- Wide variety of Turns Ratios in stock.
- Contact Us for DC-DC Module Design
- Contact Us for SM Assembly of all Components for DC-DC Converter

1. Ref Design DC1929A Based. "Off-Line" Input Voltage Range 150-420.

Champs PNs & DC1929A Catalog

Champs PN	Vin (Min)	Vin (Max)	Vout	Io
80R2-5AC-3125002-1M2	150	420	5	30.0
80R2-12AC-3124005-1M2	180	400	12	16.7
80R2-15AC-3115006-1M2	180	400	15	12.5
80R2-24AC-3124010CT-1M2	150	400	24	10.0
80R2-24AC-3206CT-1M2	300	400	24	10.0
80R2-28AC-3222008	180	400	28	10.0
80R2-30AC-3208-1M2	300	400	30	8.0
80R2-24AC-3124010CT-1M2	300	400	57	3.0
Linear Technology DC1929A URL				



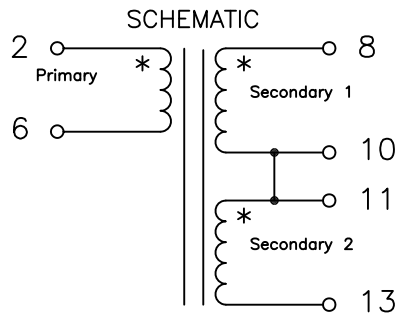
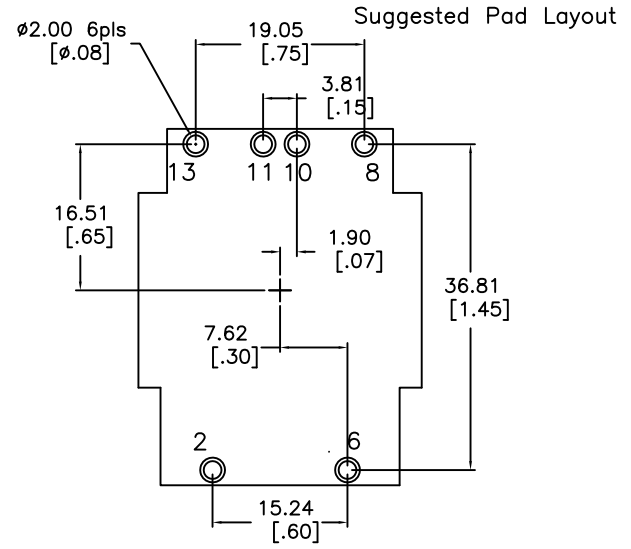
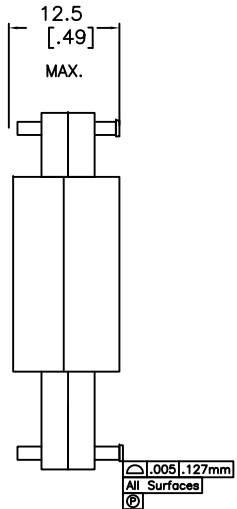
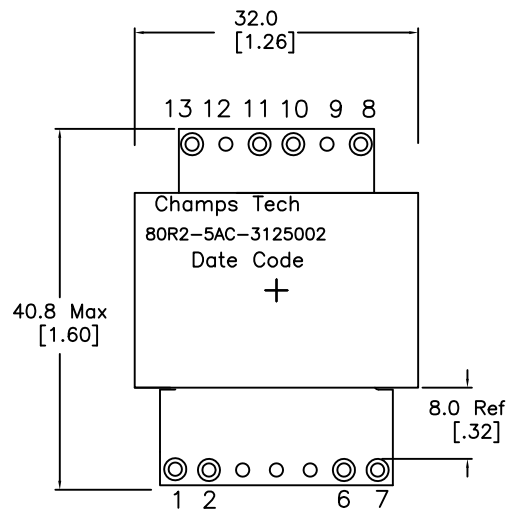
3752 TA06b

Options include discrete component or integrated complete DC-DC Converter Module:

- **Surface Mount Discrete Component Design.**
- **Discrete Component Implemented in Pad-to-Pad Mounting.**
- **Component implemented as Half-Embedded Design + SM Assembly of all components required of DC-DC Converter.**
- **Implemented as a Fully Embedded Design + SM Assembly of all components required of DC-DC Converter.**
- **SMT Component Assembly of PCB Including Planar Magnetics Inclusive of Converter Testing. Volume capacity 100K per month**

Notes:

1. Consult Linear Tech Ref Design BOM and Schematic for exact device as specified for use by Linear in that Reference Design.
2. In all cases Champs Technologies makes no representation as to suitability of the Reference Design itself as that is the design responsibility and Intellectual Property of Linear Technology.
3. Champs Technologies responsibility is limited to the use of its component as described in the Data Sheet and any warranty express or implied is limited to component replacement if found defective.



- ELECTRICAL INFORMATION:**
 TURNS RATIO [8-13] : [2-6] = 0.065 +/-2%
- DCR [2-6]= 186 mohm Nom, [8-10] = [11-13] = 1.38 mohm Nom,
 - Inductance [2-6] = 1.2mH Nom, 1.08 Min, 1.32 Max @100KHz, 1.0 VRMS @ 25C
 - Leakage Inductance [2-6]= Short [8-13] = 4.0 uH Nom @100 KHz
 - Dielectric Strength 6 Sec Min: [2,6] to [8,13] : Core 3750 VAC II [8,13] :Core 500 Vdc
 - Weight 30 grams Max | RoHS Compliant | Pin Composition Tin/Silver Plating
 - Volt-usec Rating = 1020 @100C
 - Operating Ambient Temp Rating: -55C to +130C [Inclusive of Temp Rise]

No.	DESCRIPTION	REVISIONS	DATE	APPR	
THIRD ANGLE PROJECTION					
CHAMPS TECHNOLOGIES					
DRAWN		SIGN	DATE	Champs No. 80R2-5AC-3125002-1M2	
CHKD		HE	3/5/12	Customer	ISSUE
APPR				Part #:	REV
				SIZE	SCALE 150%
				A	00