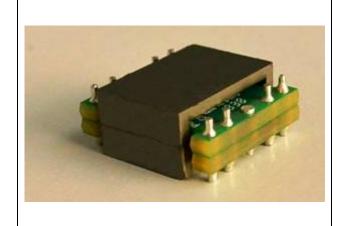
Champs Technologies Support of Linear Technology DC1317A Reference Designs



G45 Series

- Forward Active Clamp Topology -- Highest Efficiency attributable to Planar Design.
- Aggressive Interleave by design results in lowest achievable Leakage Inductance.
- Multilayer PCB optimization for lowest AC resistance and Proximity Effect.
- Click on Part Number in Table below for the Data Sheet.
- Wide variety of Turns Ratios in stock but not shown in Table.
- Contact Us for Module Design and SM Assy of Converter

Table I: G45 Series Recommended Part Numbers and Data Sheets

Ref Design	Vin (Min)	Vin (Max)	Vout	lo	Champs PN	Output Inductor
DC1317A-B (5V)	18	72	5	25.0	G45R2-0502-05	
DC1317A-C	18	72	12	8.0	G45R2-0405-05	PQI2050-10-LTC
DC1317A-D	18	72	24	5.0	G45R2-0408-04	PQI2050-27-LTC
DC1317A-E	36	72	5	12.0	G45R2-0702-05	
DC1317A-F	9	36	3.3	20.0	G45R2-0302-07	
DC1317A-F (5V)	9	36	5	20.0	G45R2-0202-05	
DC1317A-G	9	36	12	8.0	G45R2-0306-06	PQI2050-16-LTC

DC1317A-G (15V)	9	36	15	7.0	G45R2-0205-04	PQI2050-27-LTC
DC1317A-G (18V)	9	36	18	6.0	G45R2-0207-05	PQI2050-27-LTC
DC1317A-G (19.5V)	9	32	19.5	5.0	G45R2-0207-05	PQI2050-57-LTC
DC1317A-H	9	36	48	1.5	G45R2-0324-06	PQA2050-220-LTC
DC1317A-H (24V)	9	36	24	3.0	G45R2-0312-06	PQA2050-100-LTC

Table II: G45 Series Equivalent Part Numbers and Data Sheets

Ref Design	Vin (Min)	Vin (Max)	Vout	lo	Champs PN	Output Inductor
DC1317A-A	34	75	3.3	30.0	G45R2-0601-04	PQL2050-0R650-HX
DC1317A-H	9	36	48	1.5	G45R2-0218-04	PQA2050-220-LTC
DC1317A-H (24V)	9	36	24	4.0	G45R2-0209-05	PQA2050-100-LTC

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.

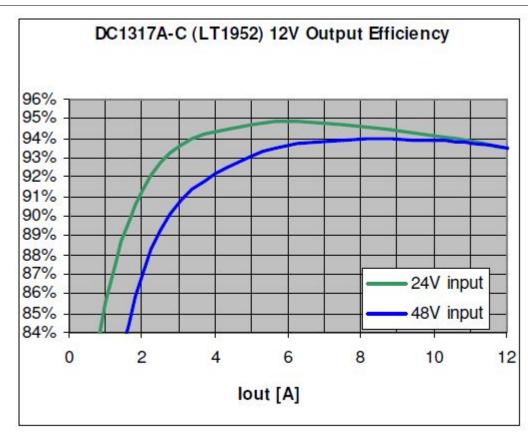


Figure 3. High efficiency of DC1317A-C allows the board to be used in thermally critical applications

Options supplied as discrete component or integrated into a complete DC-DC Converter Module:

- 1. Surface Mount Discrete Component Design (as per above Data Sheets).
- 2. Discrete Component Implemented in Pad-to-Pad Mounting.
- 3. Component implemented as Half-Embedded Design + SM Assembly of all components required of DC-DC Converter.
- 4. 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.

