

Transformers for Maxim Integrated's Iso-Buck MAX17681 Converter

For DC/DC Isolated Power Supplies



Characteristics

- Small form factor
- Self-shielding package
- Pick & placeable
- Low losses
- Single, dual or quad-output
- Up to 3W output power
- Isolation voltage: 1500V_{AC} at 1 second
- Lead free and RoHS compliant
- Operating temp: -40°C to 125°C

Applications

- Isolated fieldbus interfaces
- PLC I/O modules
- Smart meters
- Isolated power supplies in medical equipment
- Floating power supply generation

Reference Design Characteristics

- Eliminates the need for optocoupler feedback circuits
- Synchronous primary operation
- High efficiency >90% and wide V_{IN} with low power dissipation
- Reliable operation in adverse industrial environments

Electrical Properties

Order Code	U _I (V _{DC})	U _{O1} (V)	I _{O1} (A)	U _{O2} (V)	I _{O2} (A)	U _{O3} (V)	I _{O3} (A)	U _{O4} (V)	I _{O4} (A)	U _{Buck} (V)	L (μH)	N _{PR1} : N _{SEC}	f _{switch} (kHz)	U _T (V _{AC})	Package Size
750342557	17-32	15	0.1	-15	0.1					8.70	50	1 : 1.8 : 1.8	200	1500	EP10
750342779	17-36	7	0.1	-7	0.1					7.65	50	1 : 1 : 1	200	1875	EP7
750342859	17-36	15	0.2							8.70	50	1 : 1.81	200	1875	EP10
750342860	18-36	24	0.1							10.30	80	1 : 2.4	200	1875	EP10
750342864	17-36	15	0.1	-15	0.1	7.5	0.1	-7.5	0.1	7.80	50	1 : 1 : 1 : 1 : 1	200	1875	EP13
750342878	17-36	7	0.2							7.65	50	1 : 1	200	1500	EP7

