



SIZE 035
20W-150W
DESIGN EXAMPLE

TRANSFORMER DESIGN | EXAMPLE - PQC1686

ELECTRICAL SPECIFICATIONS

Topology	Forward w/ active rest	Minimum Efficiency At Nominal Input	97.50%
Input Voltage	36-72VDC	Temp. Rise Hot Spot Ambient	+45°C
Output Power	50W	Minimum Isolation Voltage	
Rated Current From Ns1 Output	15A	Primary And Aux To Secondary	1500VDC
Rated Current From Naux Output	0.5A	Primary And Aux To Core	1500VDC
Switching Frequency	300kHz	Primary To Aux	200VDC
Turns Ratio - Np/Ns/Naux	12T/2T/8T	Secondary To Core	200VDC
Duty Cycle At Low Input Voltage Max.	61%	Leakage Inductance Typ.	0.75µH
Operating Ambient Range (Full Load)	-40° C to +85° C	Weight Range (Approximate)	12-50grams
Minimum Inductance	248µH		

NOTES:

- 1) PATENTED HEADER AND SURFACE MOUNT TERMINATIONS PROVIDE REPEATABLE CO-PLANARITY FOR MANUFACTURING
- 2) THROUGH-HOLE OR SURFACE MOUNT AVAILABLE