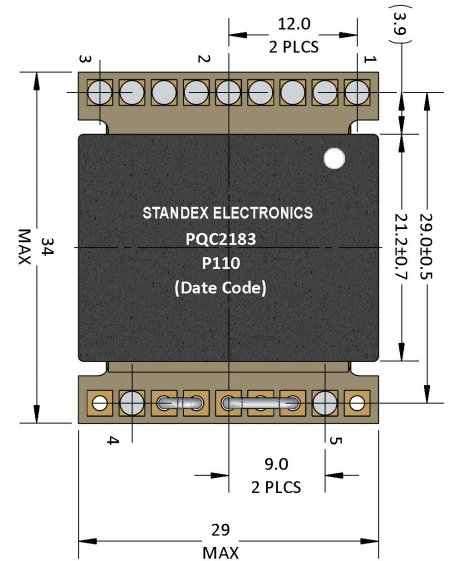
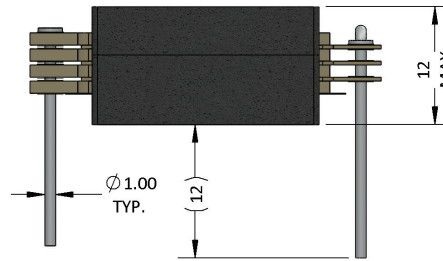
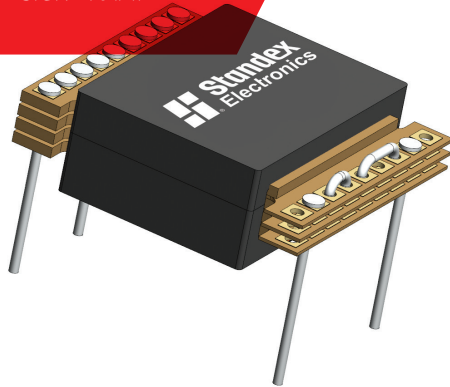


SIZE 110  
150W-700W

DESIGN EXAMPLE



### TRANSFORMER DESIGN | EXAMPLE - PQC2183

ELECTRICAL SPECIFICATIONS	Topology	Boost Forward	Temp. Rise, Hotspot Ext. Heatsink, Max.	+25°C
	Input Voltage	120-150VDC	Minimum Isolation Voltage	
	Output Power (Output Voltage/Current After Rectification)	200-300VDC/500-250mA	Pri. To Secondary Ns1 And To Core	1000VDC
	Output Power (Output Voltage/Current After Rectification) Ns1	0-30VDC/4A	Secondary To Core	500VDC
	Turns Ratio - Np/Nboost/Ns	18T/12T/6T	Primary Inductance, Np, Min.	900µH
	Switching Frequency	250kHz	Primary Resistance, Rdc, Np, Max.	140mOhm
	Duty Cycle, Max. At Low Input Voltage	60.0%	Secondary Resistance, Rdc, Ns, Max.	18mOhm
	Efficiency At Full Power Calculated	98.3% (2.5W losses)	Boost Winding Resistance, Rdc, Nboost, Max.	80mOhm
	Ambient Temp, Max.	-55°C to +85°C	Leakage Inductance 2-3/4-5 Shorted, Typ.	2µH
	Mounted On Heatsink With Max. Temp.	+65°C	Weight Range (Approximate)	30-120grams

**NOTES:**

- 1) FOR OPTIMAL PERFORMANCE A THERMALLY CONDUCTIVE SUBSTRATE BETWEEN FERRITE & HEATSINK SHOULD BE UTILIZED
- 2) PATENTED SURFACE MOUNT HEADER AVAILABLE
- 3) HEATSINK & THERMAL SOLUTIONS AVAILABLE