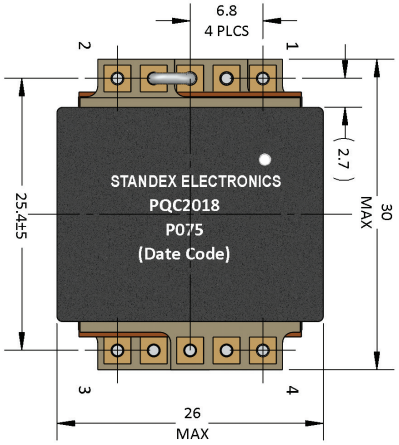
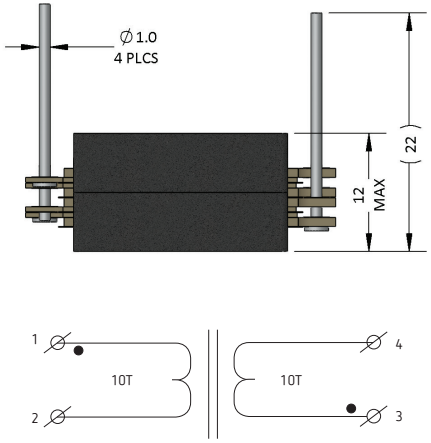
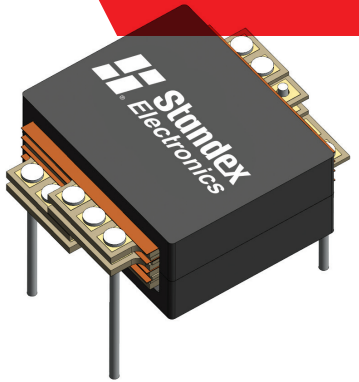




SIZE 075
100W-500W
DESIGN EXAMPLE



TRANSFORMER DESIGN | EXAMPLE - PQC2018

ELECTRICAL SPECIFICATIONS

Topology	Forward
Input Voltage	47-100VDC
Output Power (Output Voltage/Current After Rectification)	100W/(20VDC/5A)
Turns Ratio - Np/Ns	10T/10T
Switching Frequency	150kHz
Duty Cycle at Vin=47V, 1V Output Diode Drop	45.0%
Duty Cycle at Vin=100V, 1V Output Diode Drop	21.0%
Efficiency At Full Power Calculated	98.2% (1.8W losses)
Ambient Temp, Max.	+70°C

Temp. Rise, Hotspot External Heatsink, Max.	+40.5°C
Minimum Isolation Voltage	
Primary To Core	500VDC
Secondary To Primary And Core	1500VDC
Primary Inductance, Np, Min.	250µH
Primary Resistance, Np, Max.	25mOhm
Secondary Resistance, Ns, Max.	30mOhm
Leakage Inductance 1-2/3-4 Shorted, Typ.	0.4µH
Weight Range	20-70grams

NOTES:

1) CUSTOM THROUGH HOLE FORWARD DESIGN
2) PATENTED SURFACE MOUNT HEADER AVAILABLE
3) THROUGH-HOLE OR SURFACE MOUNT AVAILABLE