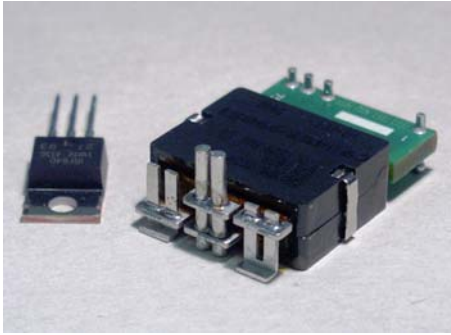




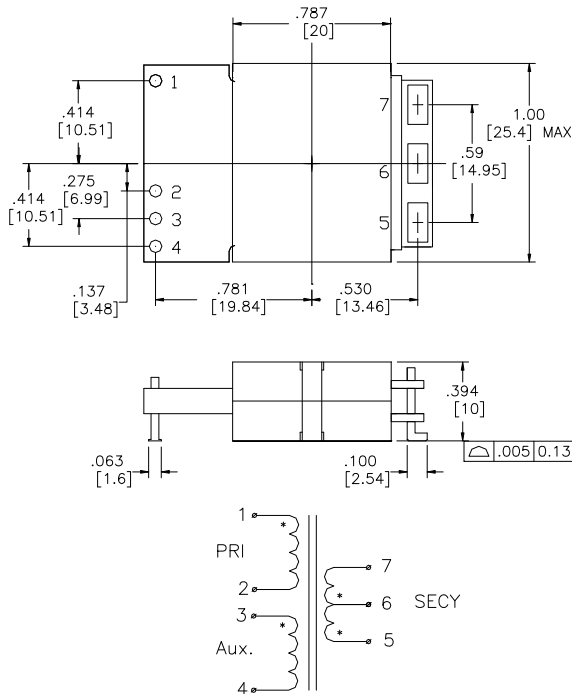
Champs Technologies USA PL58-AC Series "Off-Line"



- Off-Line Converter Apps: Forward w/ Active or Resonant Reset | PSFB | LLC | Asymmetrical Half-Bridge
- Power Rating 100-300W Typical w/ Forward Topology & 150-600W Utilizing PSFB Topology
- Frequency Range: 100 Khz to 1 Mhz
- Low Loss | Hi-Perm | Self Shielding **RoHS Compliant**

| Part # | Pri T | SecT | Pri Induct μH (Min) | Pri DCR mΩ | Sec DCR mΩ | Leakage L (μH) | Max Height (mm) |
|------------|-------|---------|------------------------|---------------|---------------|-------------------|--------------------|
| PL58AC-801 | 28 | 1T | 2600 | 160 | 0.25 | 0.60 | 10.2 |
| PL58AC-802 | 28 | 1T 1T | 2600 | 160 | 0.50 0.50 | 0.60 | 10.2 |
| PL58AC-803 | 22 | 1T | 1600 | 140 | 0.25 | 0.48 | 10.2 |
| PL58AC-804 | 22 | 1T 1T | 1600 | 140 | 0.50 0.50 | 0.48 | 10.2 |
| PL58AC-805 | 20 | 1T | 1360 | 120 | 0.25 | 0.43 | 10.2 |
| PL58AC-806 | 20 | 1T 1T | 1360 | 120 | 0.50 0.50 | 0.43 | 10.2 |
| PL58AC-807 | 18 | 1T | 1100 | 100 | 0.25 | 0.40 | 10.2 |

Notes: Operating Temp. -50°C to +130°C | Primary to Secondary Isolation 3000 Vrms



•Mechanical Configuration: SMT | Thru-Hole | Pad-To-Pad | Embedded Multi-Layer in PCB. Contact factory for available options and technical support.

•Thermal Impedance: ~20°C/W Natural Convection | ~8°C/W Heat Sink 1 Side (Contact Factory)

•Reference Design for Telecom Application ¼ "Brick". Forward Converter Topology Active Clamp operating at 68% duty at 300 Khz supplies 200W – 3.3dcV nom @33A

•Reference Design for OEM -- Application IBA to distribute +12V from PFC Off line Input Source. PSFB Bridge Converter Topology operating at 90% duty at 250 Khz supplies 360W (+12V @30A) with Vin ranging from 200 Vdc min to 420 Vdc max. Transformer loss was ~4W @85°C pcb heat sink -- <125°C Hot Spot.