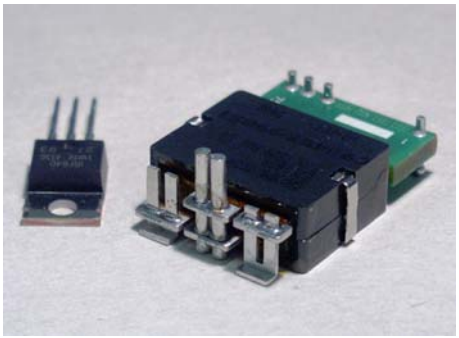
Champs Technologies USA Planar Magnetics

RoHS Compliant

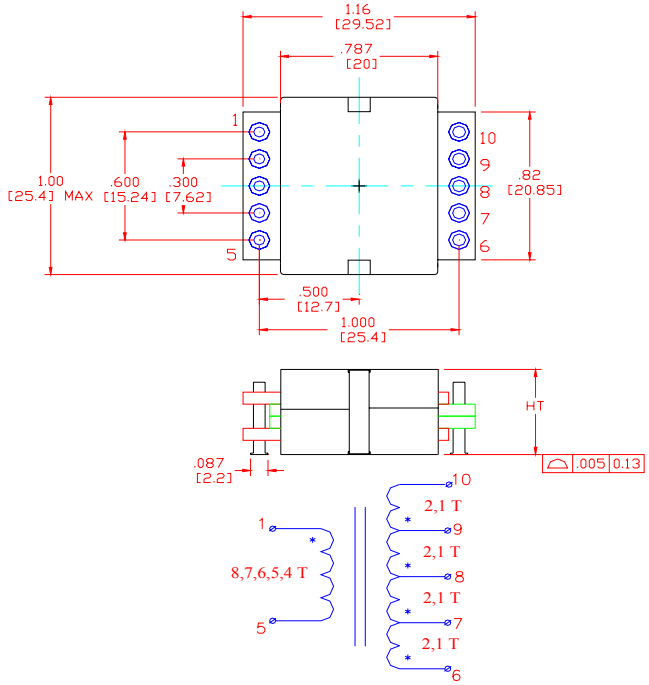
PL58 Series 100W-600W



- **DC-DC Converter Apps: Forward w/ Active or Resonant Reset | ZVT Full Bridge | Off Line Resonant**
- **Power Rating 100-300W Typical w/ Forward Topology & 200-600W Utilizing ZVT Full Bridge Topology**
- **Frequency Range: 100 Khz to 1 Mhz**
- **New Planar Core –Low Loss | Hi-Perm | Self Shielding**

Part #	Pri T	SecT	Pri Induct µH (Min)	Pri DCR mΩ	Sec DCR mΩ	Leakage L (µH)	Inter-leave	Max Height (mm)
PL58XX1-81	8	1T	236	12.5	.25	1.90	Single	9.3
PL58XX1-62	6	2T	135	10	.70	1.60	Single	9.3
PL58XX1-511	5	1T | 1T	90	6.8	.40 | .40	1.20	Single	9.3
PL58XX2-511	5	1T | 1T	90	6.8	.40 | .40	.220	Double	10.2
PL58XX1-41	4	1T	58	3.9	.25	.900	Single	9.3
PL58XX2-41	4	1T	58	3.9	.25	.180	Double	10.2
PL58XX3-31	3	1T	33	2.4	.25	.600	Single	9.3

Notes: Operating Temp. -30°C to +125°C Typ (-55 to +155 Avail) | Primary to Secondary Isolation 1500 Vdc Basic



OUTLINE 01

- Part Number Information: PL58XX1or2-XX-XX

  Example: Series PL58 | XX Outline 01, 03 or 06 | 1 is Single, 2 is Double Interleave | XX is Primary Turns | XX Secondary Turns (in order) | -XX reserved for Aux Wdg (Turns & Pin #s)

- Mechanical Configuration: SMT | Thru-Hole | Point-to-Point | 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)

- Std Line PL58 Series suitable for operation in reference designs of major IC manufacturers – e.g. ON Semiconductor, Texas Instruments, STM Micro-electronics, LTC, Maxim

- Reference Design for Telecom Application ¼ "Brick". Forward Converter Topology w/ Resonant Reset operating at 68% duty at 300 Khz supplies 200W – 3.3dcV nom @33A and +/-15Vdc @3A each

- Reference Design for OEM -- Application IBA to distribute +12V from PFC Off line Input Source. ZVT Bridge Converter Topology operating at 85% duty at 300 Khz supplies 540W (+12V@45A) with Vin ranging from 180 Vdc min to 360 Vdc max. Transformer loss was ~4W @85°C pcb heat sink -- <125°C Hot Spot.

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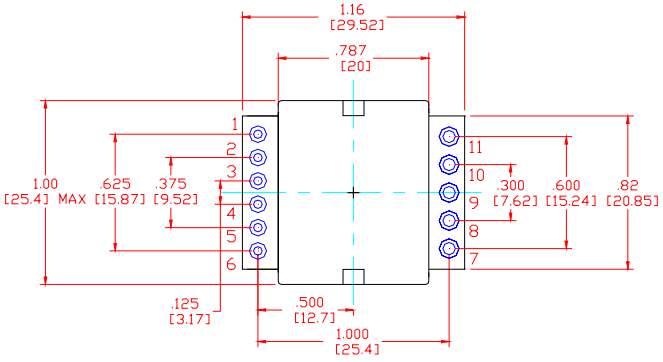
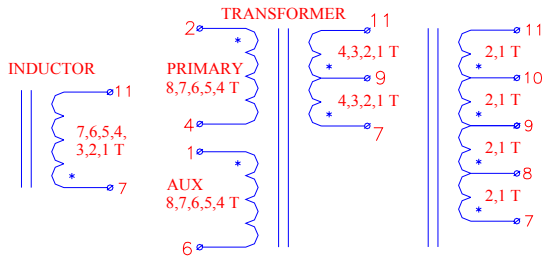
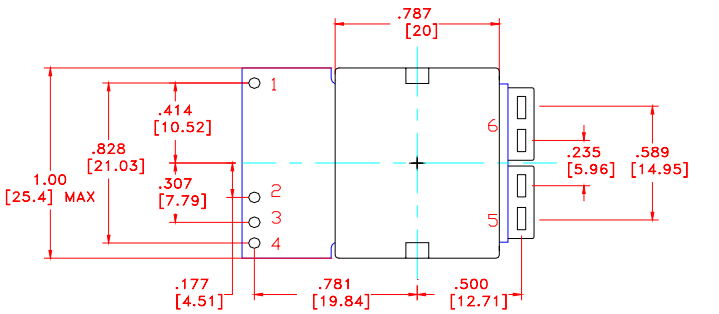
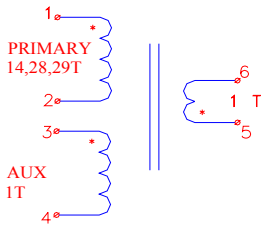


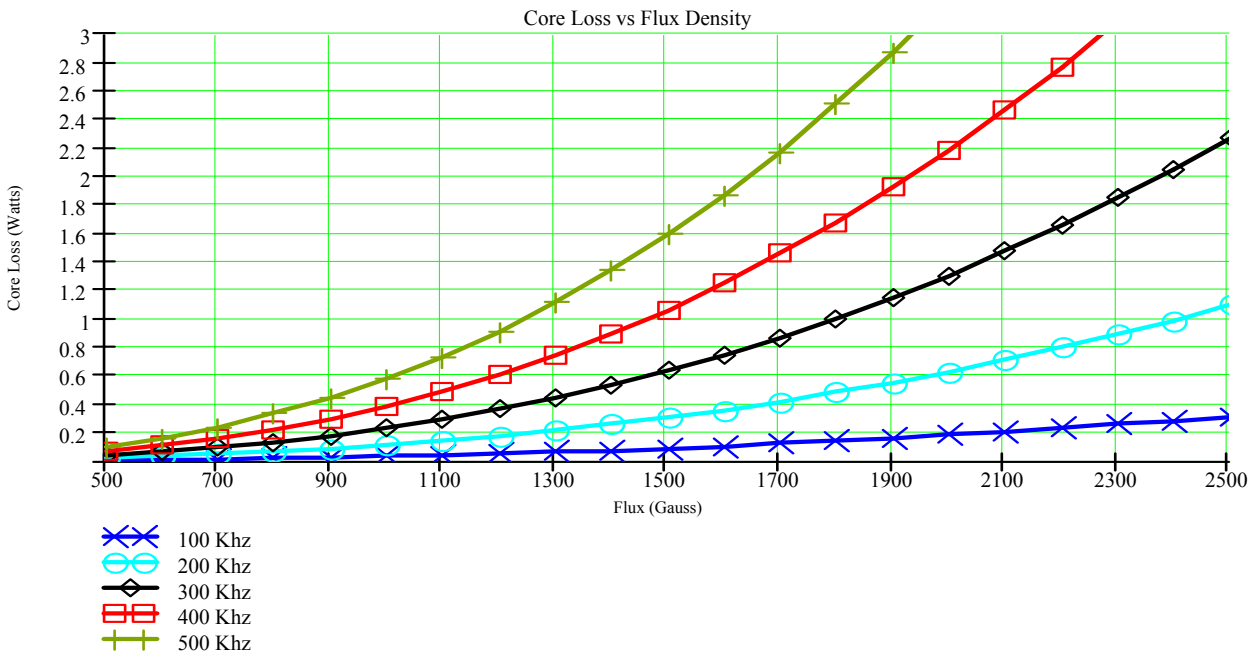


OUTLINE 03





OUTLINE 06



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