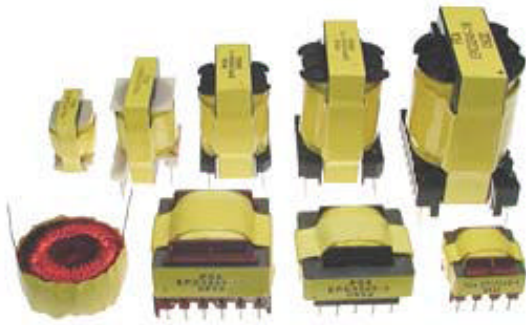


EPC3246-XX

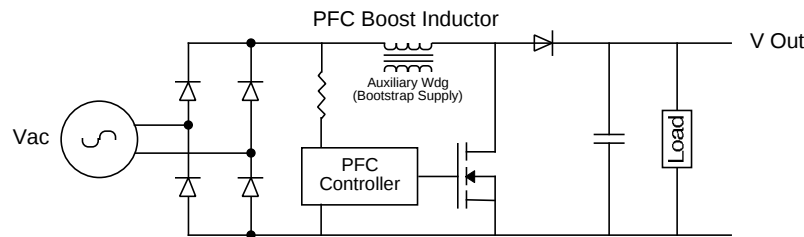
- Used as (PFC) Boost Inductor with Auxiliary Winding
- Isolation Between Shield and Winding : 4.5K Vrms
- All parts have Faraday Shield (except Toroid)
- Isolation Between Winding : 1500 Vrms
- UL 94V-0 Recognized Components
- UL 1446 Class B Insulation System
- * Up to 100% Maximum Duty Cycle
- Very Large Gap Ferrite



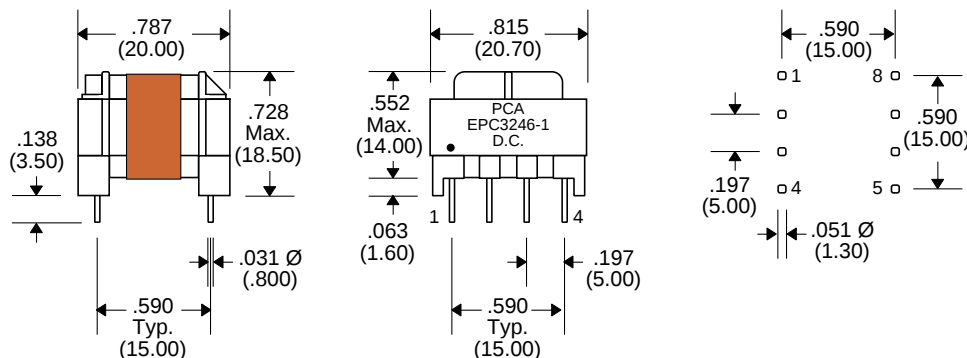
Electrical Specifications @ 25°C

Part Number	Inductance ($\mu\text{H} \pm 10\%$) @ 100 KHz, 0.1 Vrms	Max. Power (Watts)	Avg. Inductor Current (Amp.)	Peak Inductor Current (Amp.)	Switching Frequency (KHz Min.)	Vt (Volt $\mu\text{Sec.}$ Max.)	Core Shape	Package Drawing	Package Type	Schematic
EPC3246-1	2000	70	0.58	1.16	200	1900	EE	A	Horizontal	1
EPC3246-2	2000	70	0.58	1.16	200	1900	EE	B	Vertical	2
EPC3246-3	2000	190	1.58	3.16	100	3800	EE	C	Horizontal	3
EPC3246-4	2000	190	1.58	3.16	100	3800	EE	D	Vertical	4
EPC3246-5	1000	190	1.58	3.16	200	1900	Toroid	E	Horizontal	5
EPC3246-6	2000	190	1.58	3.16	100	3800	Toroid	E	Horizontal	5
EPC3246-7	1000	190	1.58	3.16	200	1900	Toroid	F	Vertical	5
EPC3246-8	2000	190	1.58	3.16	100	3800	Toroid	F	Vertical	5
EPC3246-9	500	310	2.58	5.15	100	3800	EE	G	Horizontal	6
EPC3246-10	1000	310	2.58	5.15	100	3800	EE	G	Horizontal	6
EPC3246-11	500	310	2.58	5.15	100	3800	ER	H	Vertical	3
EPC3246-12	1000	310	2.58	5.15	100	3800	ER	H	Vertical	3
EPC3246-13	500	430	3.58	7.15	100	3800	ER	I	Vertical	6
EPC3246-14	1000	430	3.58	7.15	100	3800	ER	I	Vertical	6
EPC3246-15	1000	550	4.58	9.15	50	7600	ETD	J	Horizontal	7
EPC3246-16	500	550	4.58	9.15	100	3800	ETD	J	Horizontal	7
EPC3246-17	1000	550	4.58	9.15	50	7600	ETD	K	Vertical	7
EPC3246-18	500	550	4.58	9.15	100	3800	ETD	K	Vertical	7

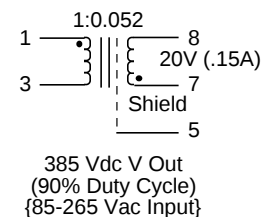
Simplified Active PFC Boost Circuit



Package A



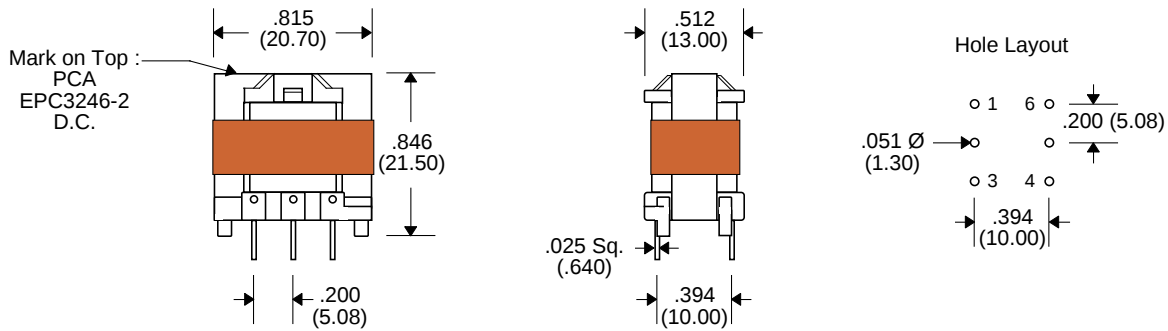
Schematic 1



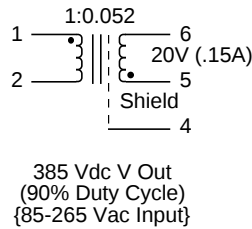
Unless Otherwise Specified Dimensions are in Inches /mm $\pm .010 / .25$

EPC3246-XX

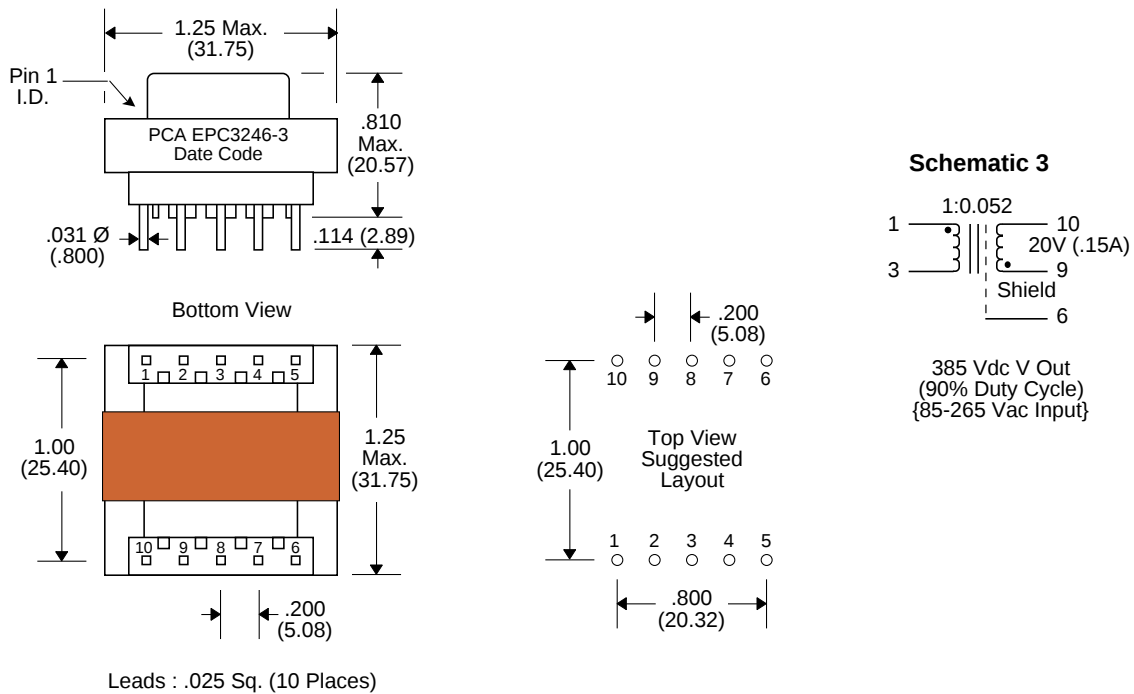
Package B



Schematic 2

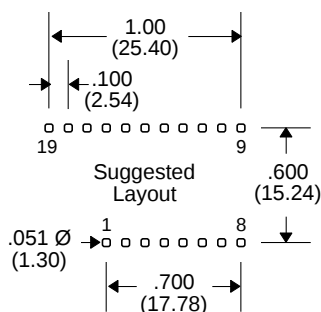
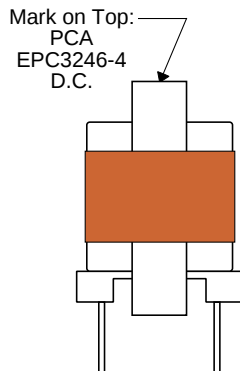
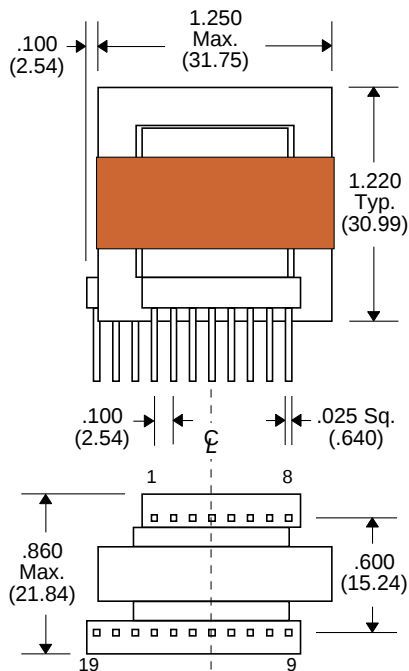


Package C

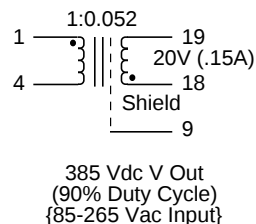


Unless Otherwise Specified Dimensions are in Inches /mm ± .010 / .25

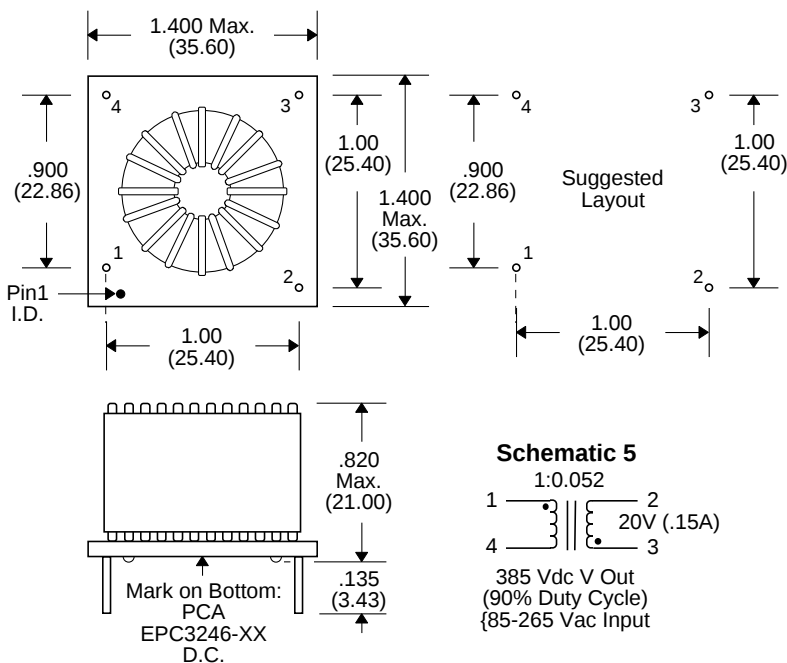
Package D



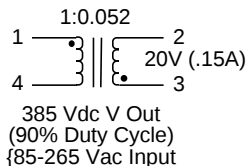
Schematic 4



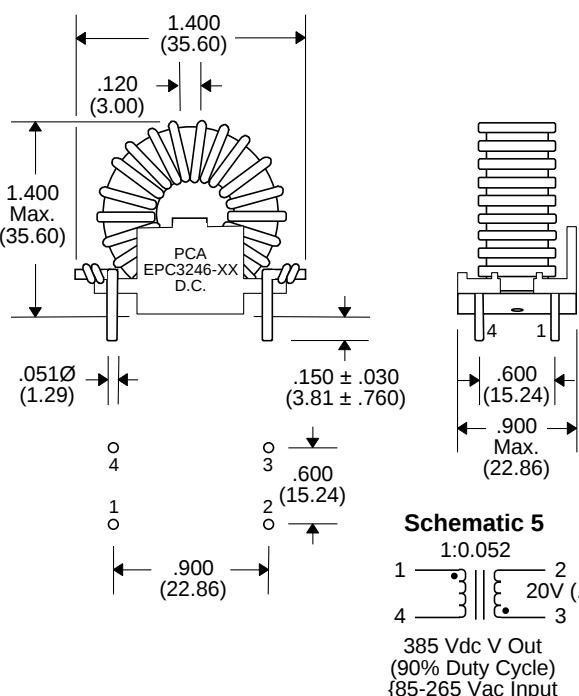
Package E



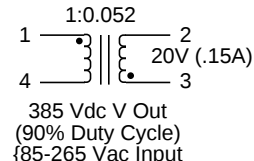
Schematic 5



Package F

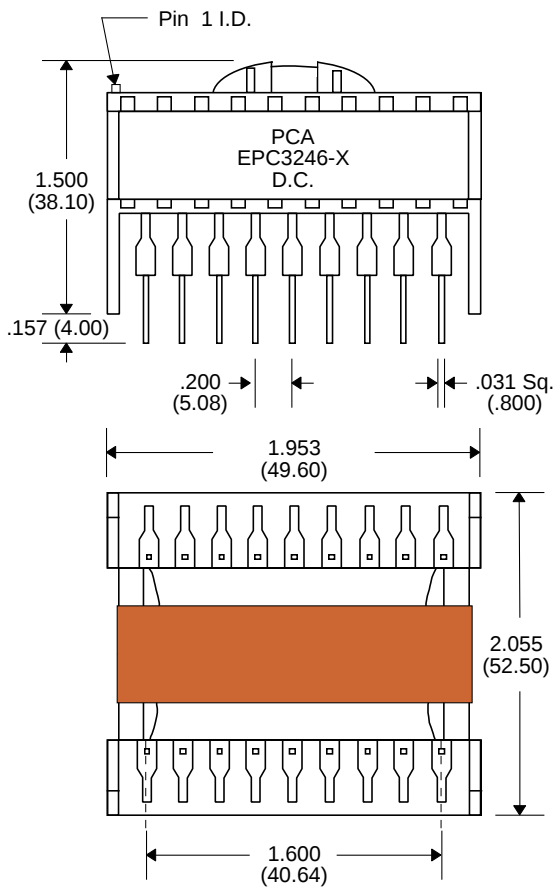


Schematic 5

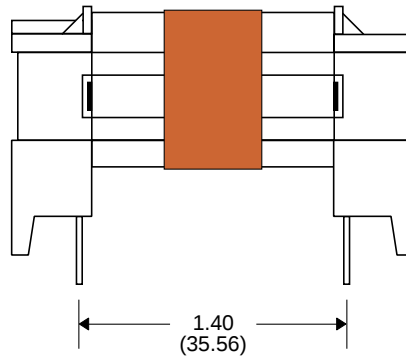


Unless Otherwise Specified Dimensions are in Inches /mm ± .010 / .25

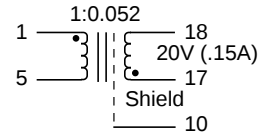
EPC3246-XX



Package J

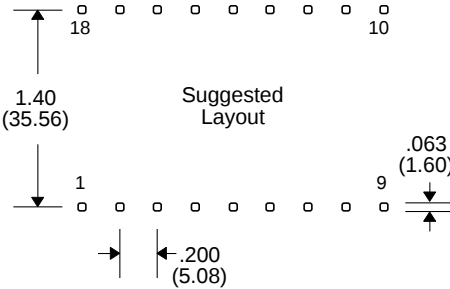


Schematic 7



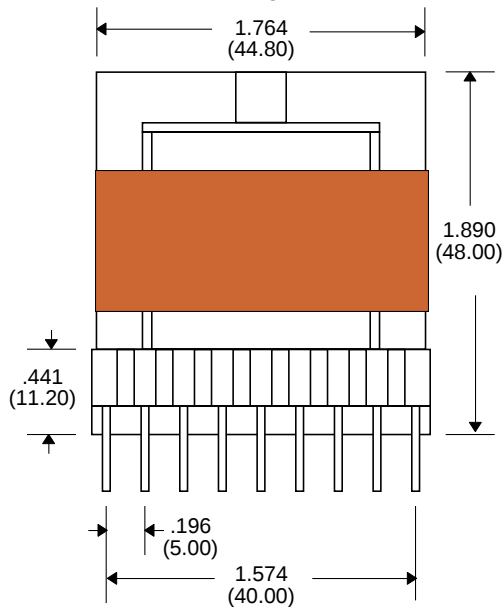
385 Vdc V Out
(90% Duty Cycle)
{85-265 Vac Input}

Top View

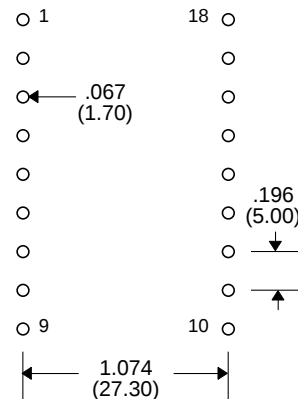
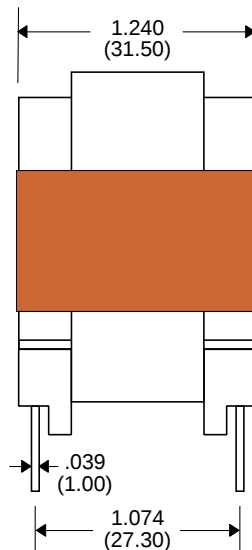


Suggested
Layout

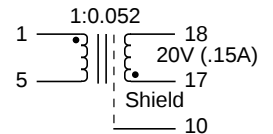
Mark on Top:
PCA
EPC3246-X
D.C.



Package K



Schematic 7



385 Vdc V Out
(90% Duty Cycle)
{85-265 Vac Input}

Unless Otherwise Specified Dimensions are in Inches /mm ± .010 / .25