

EPC3246-XX

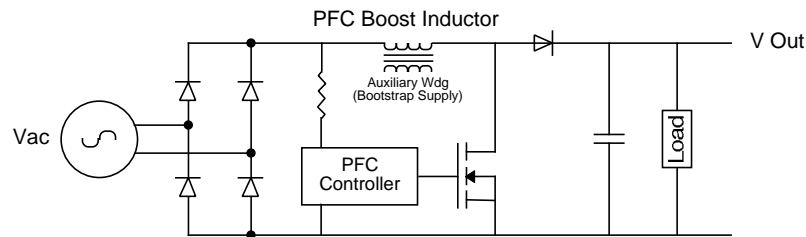


- Used as (PFC) Boost Inductor with Auxiliary Winding
- Isolation Between Shield and Winding : 4.5K Vrms
- All parts have Faraday Shield (except Toroid)
- Isolation Between Winding : 1500 Vrms
- UL 94V-0 Recognized Components
- UL 1446 Class B Insulation System
- * Up to 100% Maximum Duty Cycle
- Very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

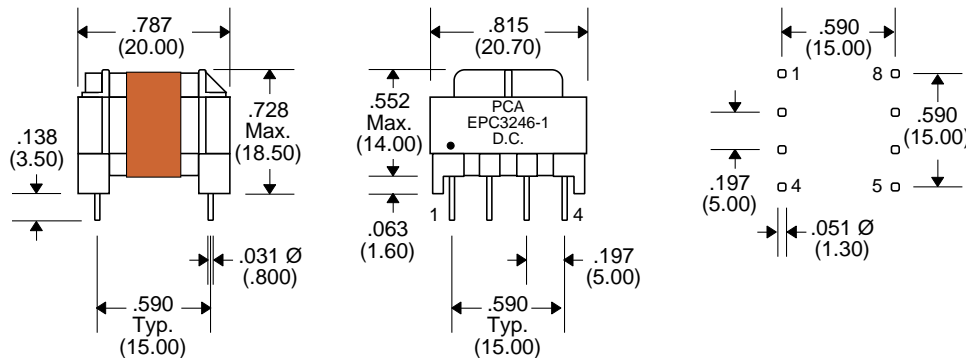
Electrical Specifications @ 25°C

Part Number	Inductance (µH ± 10%) @ 100 KHz, 0.1 Vrms	Max. Power (Watts)	Avg. Inductor Current (Amp.)	Peak Inductor Current (Amp.)	Switching Frequency (KHz Min.)	Vt (Volt µSec. 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

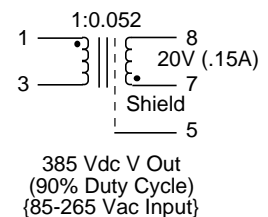
Simplified Active PFC Boost Circuit



Package A

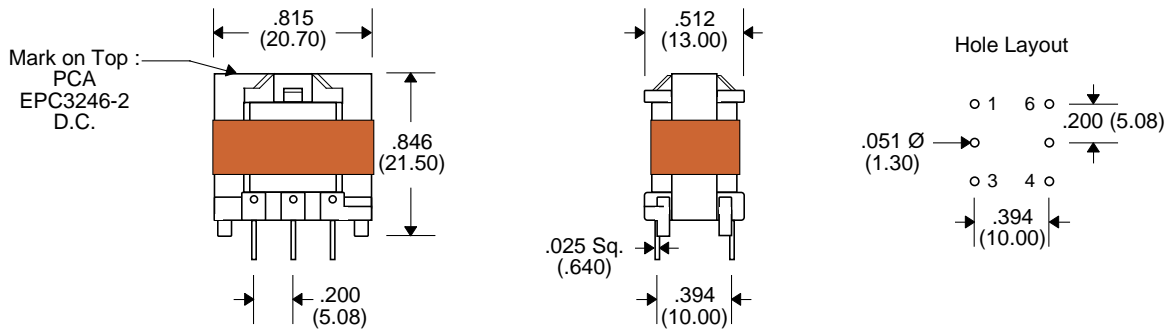


Schematic 1

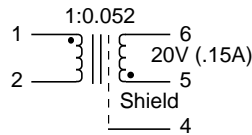


Unless Otherwise Specified Dimensions are in Inches /mm ± .010 / .25

Package B

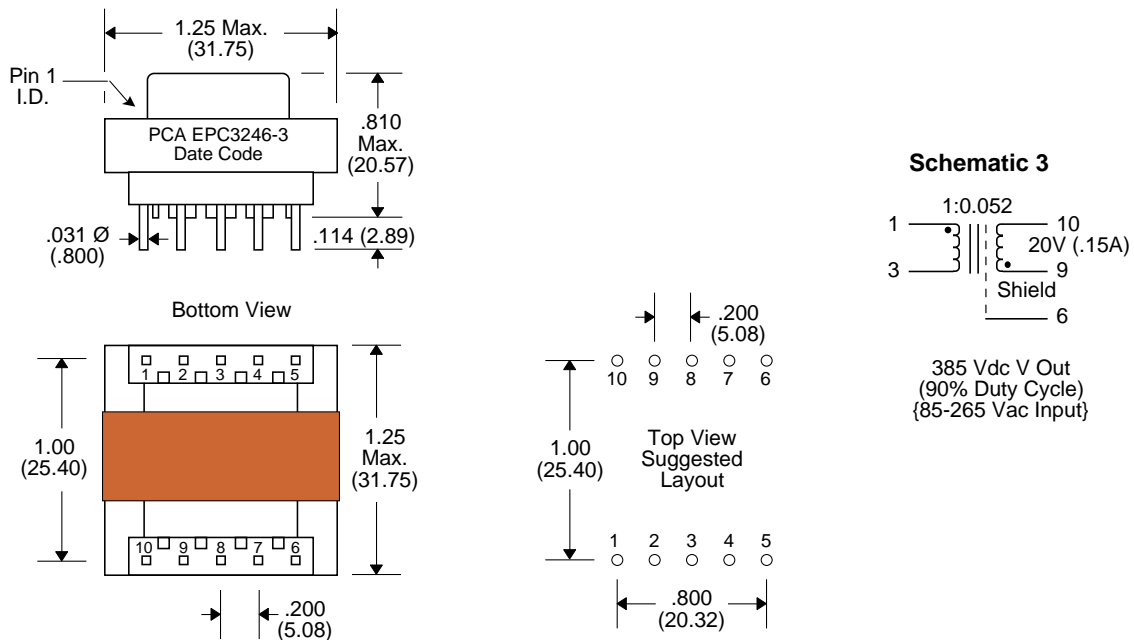


Schematic 2



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

Package C

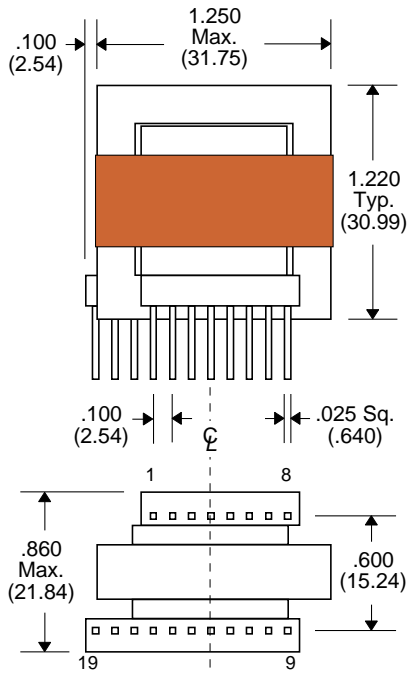


Leads : .025 Sq. (10 Places)

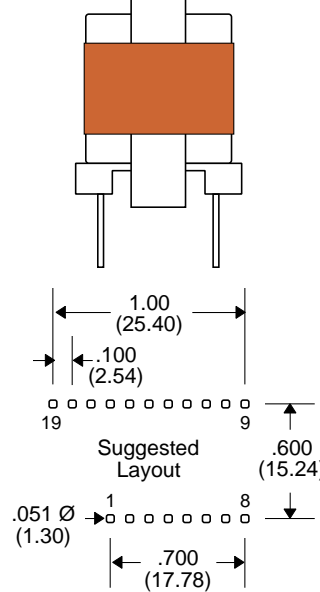
Unless Otherwise Specified Dimensions are in Inches /mm ± .010 / .25

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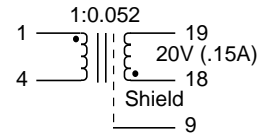
Package D



Mark on Top:
 PCA
 EPC3246-4
 D.C.

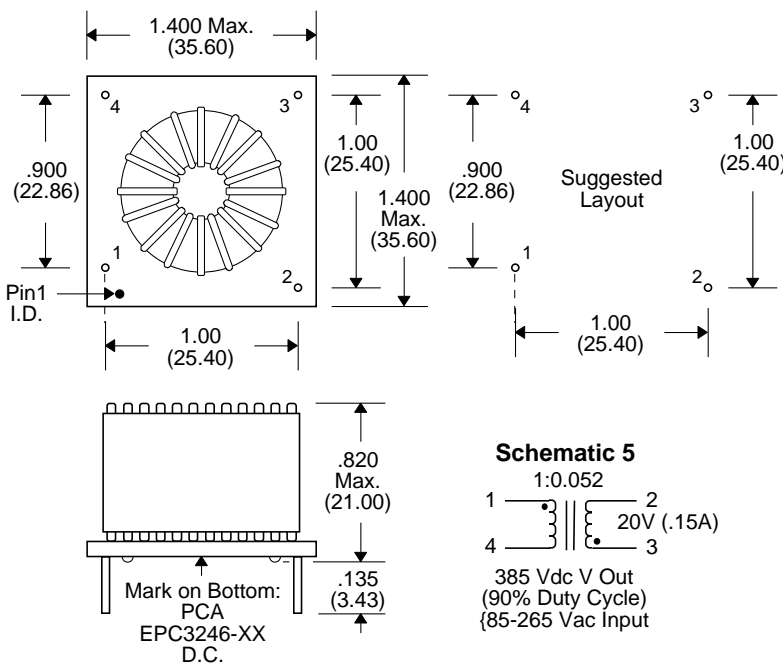


Schematic 4

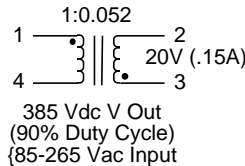


385 Vdc V Out
 (90% Duty Cycle)
 {85-265 Vac Input}

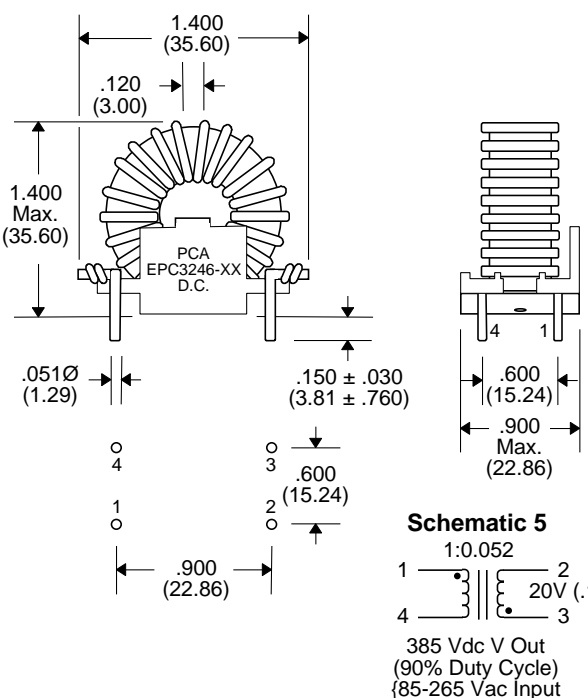
Package E



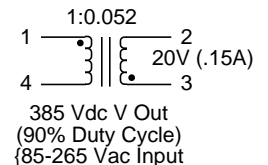
Schematic 5



Package F

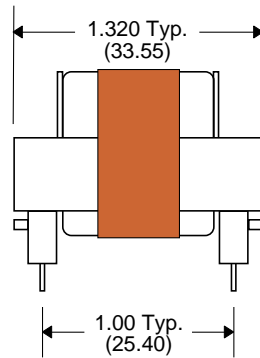
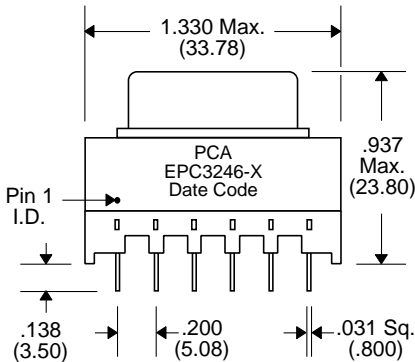


Schematic 5

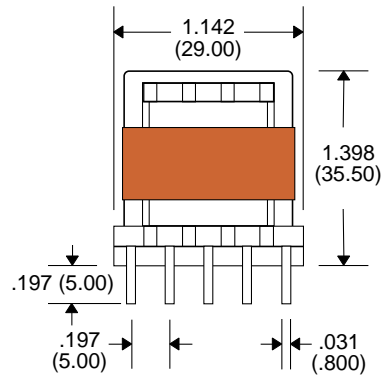


Unless Otherwise Specified Dimensions are in Inches /mm ± .010 / .25

Package G

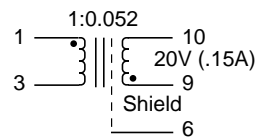


Package H



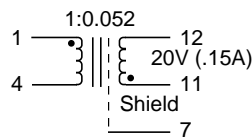
Mark on Top:
 PCA
 EPC3246-X
 Date Code

Schematic 3

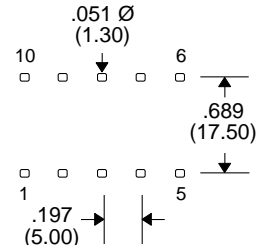
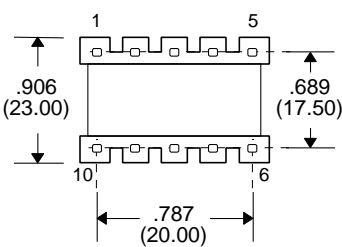
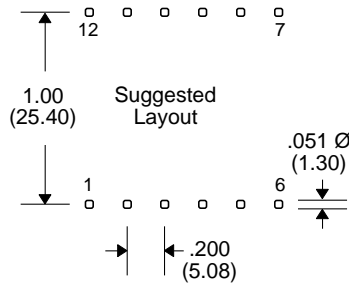


385 Vdc V Out
 (90% Duty Cycle)
 {85-265 Vac Input}

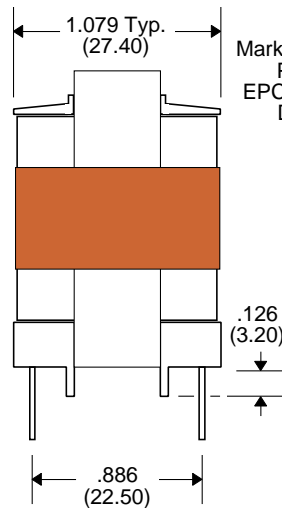
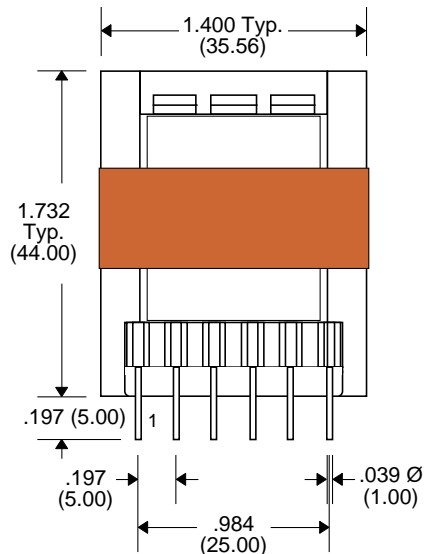
Schematic 6



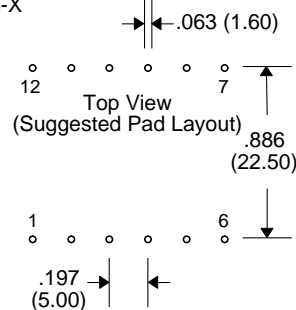
385 Vdc V Out
 (90% Duty Cycle)
 {85-265 Vac Input}



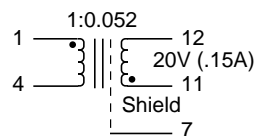
Package I



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



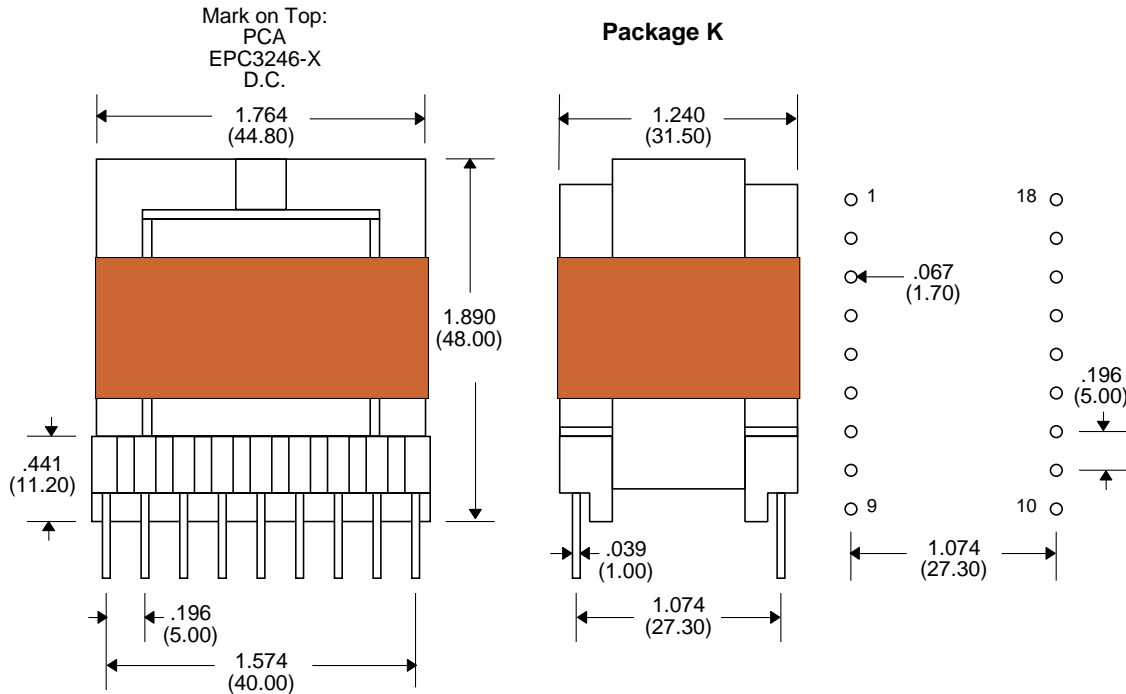
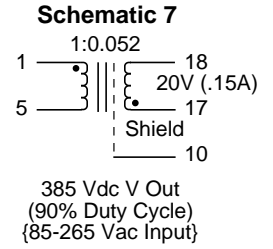
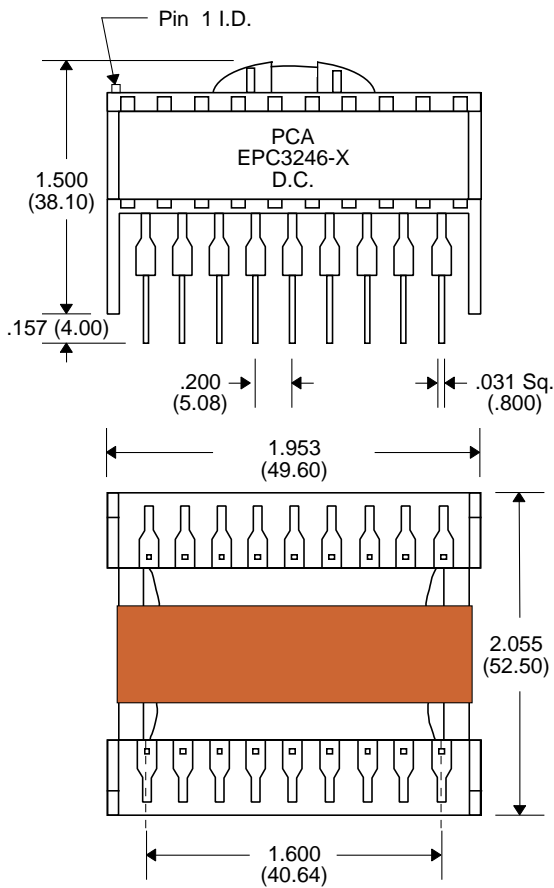
Schematic 6



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

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