

# Push-Pull Low Power Transformer EPC3117S-X & EPC3117S-X-LF



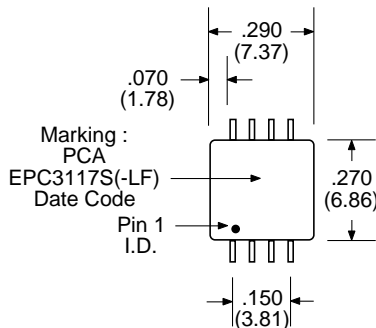
- Designed for use with Maxim Max845
- Used in SMPS Push-Pull Topology
- UL 94V-0 Recognized Components
- UL 1446 Class B Insulation System
- Add "-LF" after part number for Lead-Free
- Switching Frequency : 250 KHz-1 Mhz
- 8 Pin SOIC PCMCIA Package
- 700 Vdc Minimum Isolation
- Very Low Core Loss

## Electrical Parameters @ 25° C

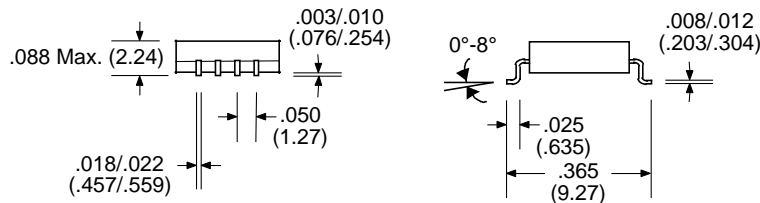
PCA Part Number	Voltage (V)		Primary OCL (μH Typ.)	Turns Ratio (Pri. :Sec.)	ET (V-μSec.)	Duty Cycle (%)	Rectification (Half or Full Wave)
	V in	V out					
EPC3117S-1(-LF)	3.3	5	150	1:1:2:2	7.1	75	† Output Center Tap
EPC3117S-2(-LF)	5	5	375	1:1:1.3:1.3	11	75	† Output Center Tap
	5	10	375	1:1:1.3:1.3	11	75	Voltage Doubler
*EPC3117S-3(-LF)	5	10	375	1:1:2.67:2.67	11	75	† Output Center Tap
*EPC3117S-4(-LF)	5	12	375	1:1:3:3	11	80	† Output Center Tap
	5	24	375	1:1:3:3	11	80	Voltage Doubler
EPC3117S-5(-LF)	3.3	5	150	1:1:1:1	7.1	75	Voltage Doubler
EPC3117S-6(-LF)	5	5	375	1:1:1.67:1.67	11	75	Voltage Doubler
EPC3117S-7(-LF)	5	12	375	1:1:1.5:1.5	11	80	Voltage Doubler
EPC3117S-8(-LF)	5	15	375	1:1:2:2	11	75	Voltage Doubler

- † Connections : Output Center Tap as Common/Return • Operating Temperature : -40°C to +85°C •

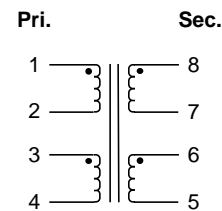
## Package



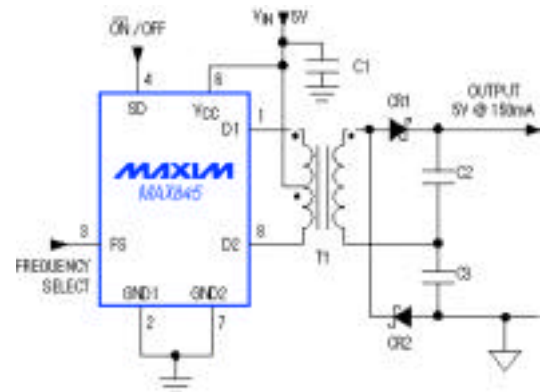
\*.098 Max. (2.49) for EPC3117S-3/-4



## Schematic



## Application



Notes :	EPC3117S	EPC3117S-LF
1. Assembly Process (Solder Composition)	SnPb	Sn100
2. Peak Temperature Rating	225°C (10 +2/-0) Seconds	260°C (10 +2/-0) Seconds
3. Weight	TBD grams	TBD grams
4. Packaging Information (Tube)	TBD pcs / tube	TBD pcs / tube

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