

Flyback Transformer For Microsemi PoE PD Power Supply



- Developed for use with Microsemi UC3844 Current Mode Controller and LX1752 Buck Regulator
- 1500 Vrms, one minute isolation from primary, auxiliary and reset to secondary; 500 Vrms from primary and reset to auxiliary
- Designed for 36 V 57 V input; 200 kHz

Core material Ferrite

Terminations RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 6.7 g

Ambient temperature -40°C to +85°C

Storage temperature Component: -40°C to +85°C. Tape and reel packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Mean Time Between Failures (MTBF) 26,315,789 hours Packaging 175 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part	L at 0 A ²	L at Ipk ³	Input	DCR max	Leakage L ⁴	Turns	Ipk³	Outputs ^₅
number ¹	±10% (µH)	min (µH)	voltage (V)	(Ohms)	max (µH)	ratios	(A)	
HA3905-CL_	27.0	24.3	37 –57	0.170 (pri) 0.015 (sec) 0.385 (aux) 0.371 (reset)		3.75:1 (pri:sec) 1.36:1 (pri:aux) 1:1 (pri:reset)	1.2	5 V, 2.5 A (sec) 12 V, 20 mA (aux)

1. When ordering, please specify **packaging** code:

HA3905-CLD

- Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).
 - B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

2. Inductance is for the primary, measured at 250 kHz, 0.1 Vrms, 0 Adc.

- 3. Ipk is peak primary current drawn at minimum input voltage.
- 4. Leakage inductance measured on the primary winding with all secondary pins shorted.
- Output of the seconday is with the windings connected in parallel. 5.

6. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Dimensions are in $\frac{inches}{2}$



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Secondary windings to be connected in parallel on the PC board

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