

REV. Status

REVISION -
08/01/05 JU

REVISION A
ADDED RoHS
01/26/06 JU

REVISION B
ADDED PIN DIMS
03/23/06 JU



L07P***D15 SERIES * OPEN LOOP * PCB MOUNT *
DUAL INTEGRATED PRIMARY CURRENT SENSOR

MODEL NUMBER
L07P***D15

NOTES: UNLESS OTHERWISE SPECIFIED

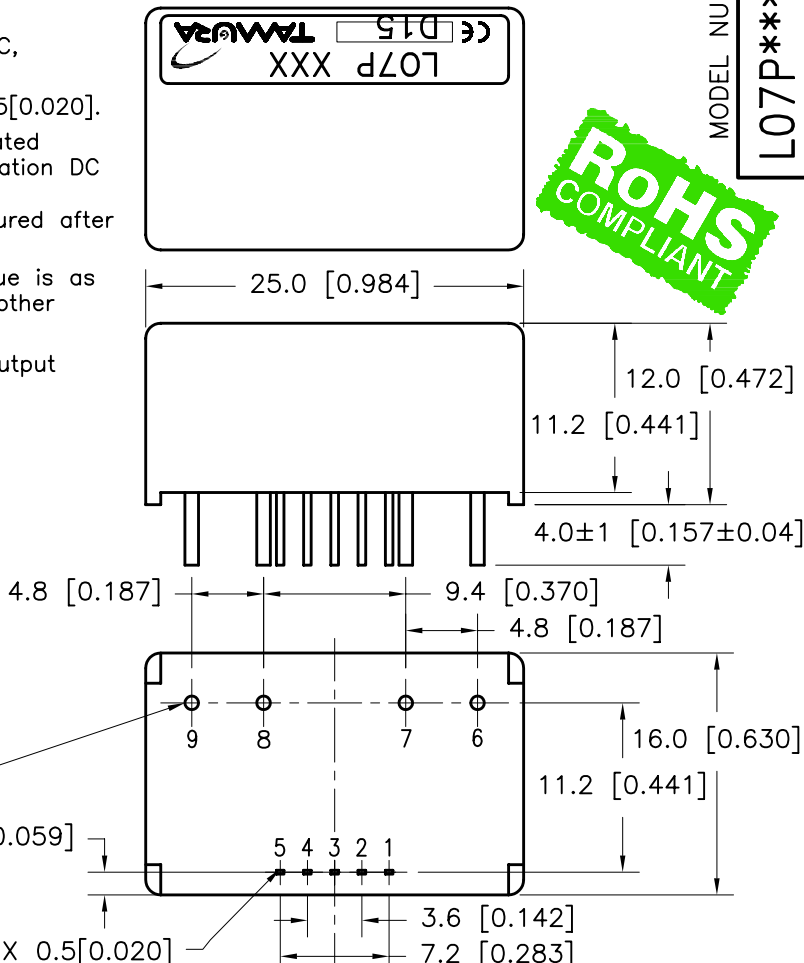
- All Electrical Specifications @ $T_a=25^{\circ}\text{C}$, $V_{CC}=\pm 15\text{V}$ and $R_L=10\text{K}\Omega$
- All dimensional tolerances to be $\pm 0.5[0.020]$.
- Although output voltage is $\pm 4\text{V}$ at rated current I_f , use current within continuation DC current I_{fDC} .
- The offset voltage indicated is measured after the core hysteresis is removed.
- For response time, each channel value is as specified, and the input current for other channels should be 0A.
- If a capacitor is connected to the output directly, it must be less than 50pF.



TERMINAL	FUNCTION
1	+15V
2	-15V
3	OUT1
4	OUT2
5	GND
6	+IN1
7	-IN1
8	+IN2
9	-IN2

CURRENT	Ø PIN
3A ~ 10A	Ø 0.6[0.024]
15A ~ 20A	Ø 0.9[0.035]
25A	Ø 1.2[0.047]

5 RECTANGULAR PINS 0.25[0.010] X 0.5[0.020]



Electrical Specification	SYMBOL	L07P003 D15	L07P005 D15	L07P010 D15	L07P015 D15	L07P020 D15	L07P025 D15
Nominal Primary DC current	I_f	±3A	±5A	±10A	±15A	±20A	±25A
Continuation DC current	I_{fDC}	±3A	±3.5A	±5A	±10A	±10A	±15A
Maximum Current	I_{fMAX}	±9A	±15A	±30A	±45A	±60A	±75A
Rated Output Voltage	V_{OUT}	+4V±0.050V, -4V±0.150V (at I_f)					
Offset Voltage	V_{OE}	0±0.050V					
Output Linearity	E_L	≤ 1% (at 0A ~ I_f) (without offset)					
Power Supply	V_{CC}	±15V ±5%					
Current Consumption	I_C	≤ 30mA					
Response Time	T_r	≤ 10 μsec ($di/dt = 10\text{A} / 5\mu\text{sec}$)					
Output Temperature Characteristic	TCE_G	≤ 0.1% / °C (without offset)					
Offset Temperature Coefficient	V_{OT}	≤ ±2mV / °C TYP					
Hysteresis Allowance	V_{OH}	≤ 30mV (0A ↔ I_f)					
Withstand Voltage	V_d	AC2000V for 1 minute (sensing current 0.5mA) Pri ↔ Sec					
Insulation Resistance	R_{IS}	≥ 500MΩ (at DC500V) Pri ↔ Sec					
Operating Temperature	T_A	-10 ~ +80°C					
Storage Temperature	T_S	-15 ~ +85°C					

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DRAWING CONTROL NO.
P-A4-13573
ACAD/MXFMR/A4135731.DWG

REV
B

MODEL DESCRIPTION
CURRENT SENSOR
L07P***D15 SERIES

MODEL SPECIFICATION
L07P***D15

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