



RENCO ELECTRONICS, INC.

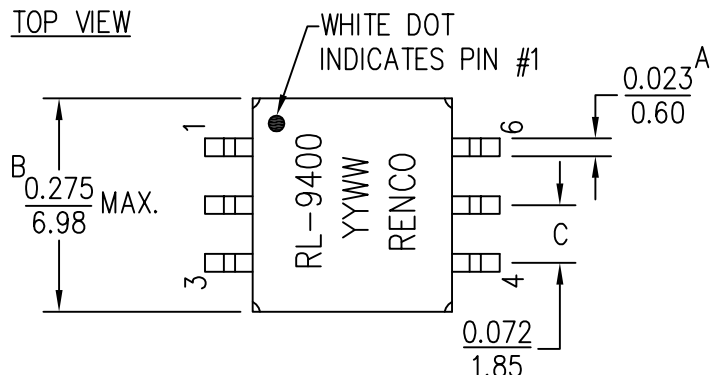
595 INTERNATIONAL PL. • ROCKLEDGE, FLORIDA 32955

ph. (321)637-1000 fax (321)637-1600

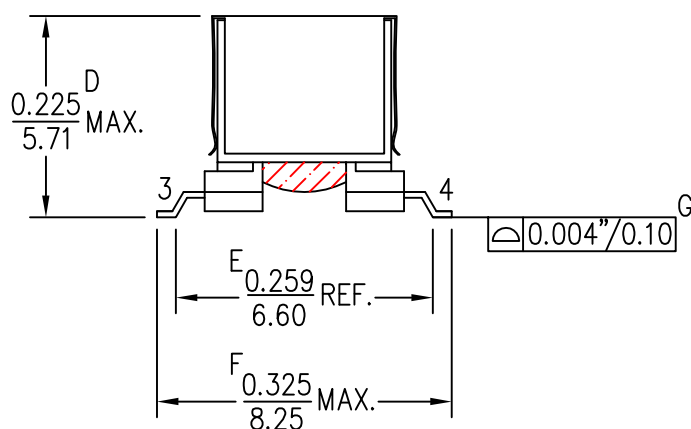
web www.rencousa.com < > email engineering@rencousa.com

FLYBACK TRANSFORMER FOR NATIONAL SEMICONDUCTOR (LM5001, LM431)

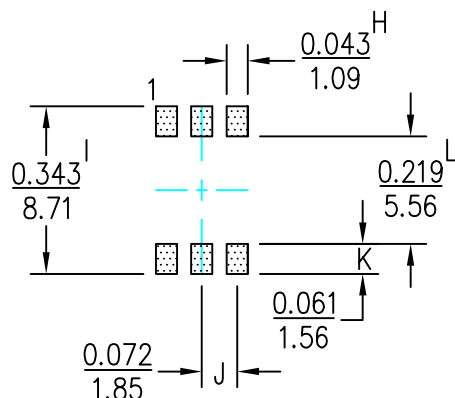
TOP VIEW



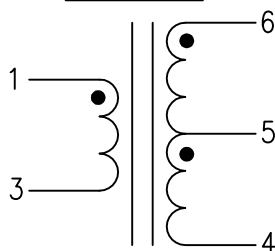
SIDE VIEW



RECOMMENDED LAND PATTERN



SCHEMATIC



APPLICATION NOTES

- DESIGNED TO OPERATE UP TO 600KHz
- INPUT VOLTAGE RANGE: 4-6V
- OUTPUT: +12V/-12V @ 1.50 WATTS
- 500VDC ISOLATION
- UL CLASS B

COMPONENT FEATURES

- CORE MATERIAL: FERRITE
- BOBBIN: PHENOLIC PM9630
- TERMINATIONS: RoHs Sn/Ag/Cu over Phosphor Bronze
- WEIGHT: 0.74g
- AMBIENT TEMPERATURE: -40°C TO 85°C
- STORAGE TEMPERATURE: -40°C TO 85°C
- RESISTANCE TO SOLDER HEAT: 10s AT 260°C
- MOISTURE SENSITIVITY LEVEL: 1
- PACKAGING: 750 PIECES PER 13" REEL, PLASTIC TAPE: 24mm WIDE, 0.5mm THICK, 12mm POCKET SPACING, 5.8mm POCKET DEPTH

ELECTRICAL TEST PARAMETERS:

INDUCTANCE @ 600KHz/0.1VAC/25°C

L(1-3)=22.0uH ±5%

RANGE: (20.9uH-23.1uH)

LEAKAGE INDUCTANCE @ 600KHz/0.1VAC/25°C

SHORT PINS: 4,5,6

Le(1-3)=200nH MAX

DC RESISTANCE OHMS (Ω) ±15% @ 25°C

RDC(1-3)=0.265 Ω

(6-5)=2.10 Ω

(5-4)=2.10 Ω

HIPOT

APPLY: 500VDC FOR 2 SECS
BTWN 1 TO 4

TURNS RATIO

(PRIM: SEC: SEC)=1.0: 3.2: 3.2

PRELIMINARY REFERENCE DATASHEET

FILE NAME

RL-9400

RoHS COMPLIANT: YES ☒ NO ☐

-TOLERANCES-	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XX=±	.03
.XXX=±	.015
ANGULAR=±	3°
FRACTIONAL=±	1/16"

DWN BY	DATE	CUSTOMER NAME	
C. BANKS	4/12/10	NATIONAL SEMICONDUCTOR	
ENGR CONTACT	REV	DESCRIPTION	
I. RENSING	A	EP5, 1.50W XFMR, ±12V SPLIT RAIL	
SIZE	SCALE=	THIS DOCUMENT IS FOR REFERENCE ONLY	PAGE
A	NONE		1 of 1