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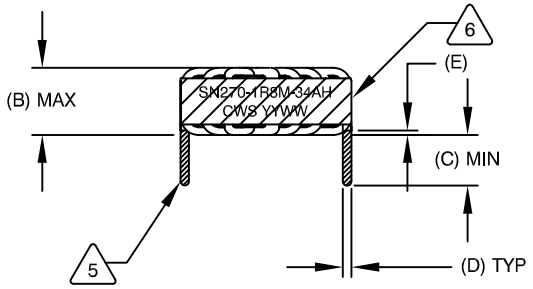
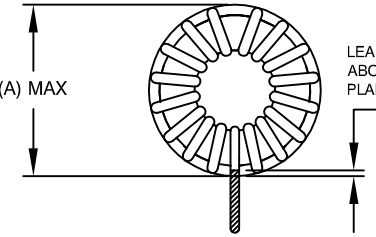
DIMENSIONAL TOLERANCE						
A (OD) MAX	B (HGT) MAX	C (LEAD) MIN	D (LEAD OD) TYP	E MIN/MAX	P1 REF	P2 REF
1.417" [36.00]	.800" [20.32]	.500" [12.70]	.091" [2.30]	.040-.060" [1.00-1.50]	.680" [17.27]	1.300" [33.02]

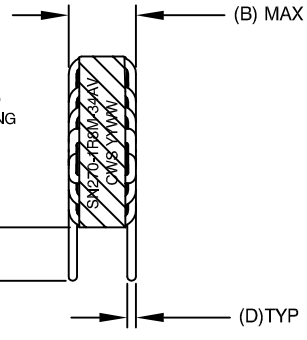
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE BY	DATE	CHK	DATE
A		INITIAL RELEASE	KLC	10/1/10	AK	10/1/10



FRONT VIEW



FRONT VIEW



SIDE VIEW

HORIZONTAL

VERTICAL

8 BUILD TO ROHS COMPLIANCE

7 ** ADD SUFFIX "H" FOR HORIZONTAL & "V" FOR VERTICAL

6 USING A PERMANENT MARKING METHOD
MARK PART NUMBER AND REVISION, IF APPLICABLE
WRAP INDUCTOR WITH 3M # 69 OR EQUAL

5 TO THE CORE
MUST REST FLAT ON PCB). LEADS MUST BE TANGENT
FLUSH WITH THE COIL EDGE, AS SHOWN (I.E. COIL
REMOVE INSULATION AND TIN LEADS 0.50 INCH

4 WIND COILS EVENLY SPACED AROUND THE CORE
CONSTRUCTION:

THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: ~ 50 GRAM
OPERATING TEMP: -55°C TO +180°C
HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250 VDC 5 SEC
AT IDC OF 34 AMPS, LESS THAN 25 °C TEMP. RISE
DCR = 1.5 MILLI-OHMS MAX.
INDUCTANCE @ 34.0 AMP ~ 1.4 uH (LESS THAN 3.4 AMP RIPPLE)
INDUCTANCE @ 20.0 AMP ~ 1.6 uH (LESS THAN 10% RIPPLE)
INDUCTANCE = 1.85 uH ±15% @ LOW DC BIAS, 1 KHz, 250mV

3 SPECIFICATIONS:

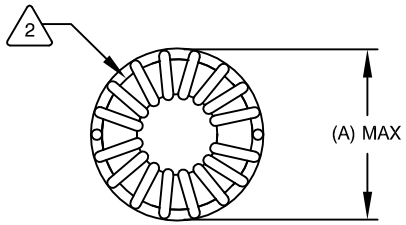
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CWS BYTEMARK OR OTHER APPROVED PART

2 CORE: POWDERED TOROIDAL CORE

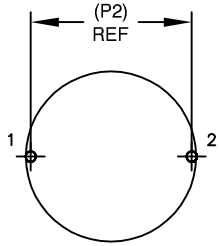
RATING CLASS H (180 °C) REQUIRED

1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

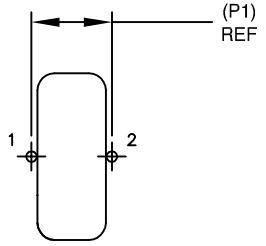
NOTES: UNLESS OTHERWISE STATED, READ NOTES FROM BOTTOM UP



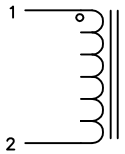
BOTTOM VIEW



MOUNTING HOLES PATTERN



MOUNTING HOLES PATTERN



SCHEMATIC

	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST				

AUTOCAD	X	COILWS COM, INC www.coilws.com	CWS Coil Winding Specialist. 353 W Grove Ave Orange, CA 92865
SOLIDWORKS			
SIGN	DATE		
DRAWN KLC	10/1/10	TITLE: POWER INDUCTOR 1.8 uH, 34 Amp	
CHECKED AK	10/1/10		
ENGR. KLC	10/1/10		
APPR. KLC	10/1/10	SIZE B DWG. NO. SN270-1R8M-34A_** REV A	
		SCALE 2=1 SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 ∠=±0'30'
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 ∠=±0'30'
ANGLE PROJECTION
DO NOT SCALE DRAWING

CAD-FILE: