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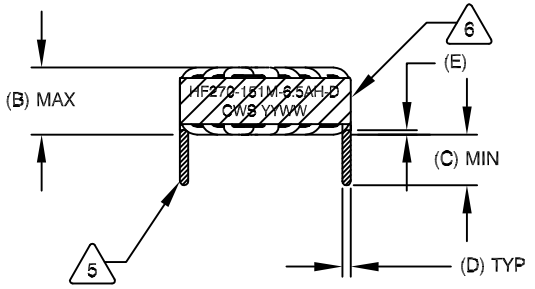
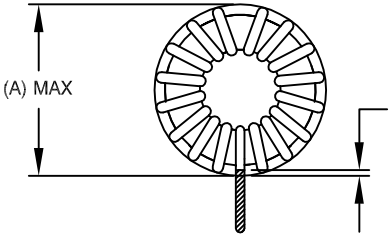
| DIMENSIONAL TOLERANCE | | | | | | |
|---|---|---|---|---|---|---|
| A (OD) MAX | B (HGT) MAX | C (LEAD) MIN | D (LEAD OD) TYP | E MIN/MAX | P1 REF | P2 REF |
| 1.350" [34.29] | .750" [19.05] | .500" [12.70] | .045" [1.15] | .040-.060" [1.00-1.50] | .600" [15.24] | 1.250" [31.75] |

| REVISION HISTORY | | | | | | |
|---|---|---|---|---|---|---|
| REV | ECN | DESCRIPTION | SIGN & DATE BY | DATE | CHK | DATE |
| C | | PRODUCTION RELEASE | BJN | 1/17/07 | JLAU | 1/17/07 |
| D | | REVISED DIMENISONAL TOLERANCE AND ADD ROHS COMPLIANCE | KLC | 11/9/10 | AK | 11/9/10 |

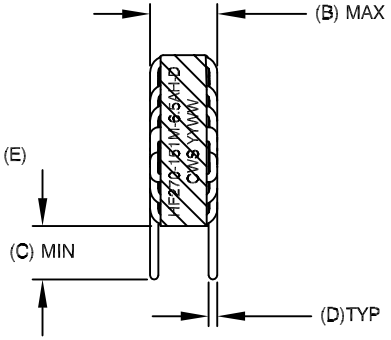
## HORIZONTAL




FRONT VIEW




FRONT VIEW




SIDE VIEW

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:

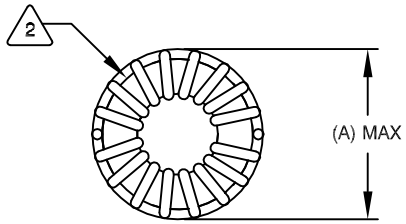
THESE SPECIFICATIONS ARE BASED ON LOW RIPPLE CURRENT
WEIGHT: ~ 50 GRAM
OPERATING TEMP: -55°C TO +180°C
HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250 VDC 5 SEC
AT IDC OF 9 AMPS, LESS THAN 40 °C TEMP. RISE
DCR = 38 MILLI-OHMS MAX.
INDUCTANCE @ 8 AMP ~ 117 uH (LESS THAN 10% RIPPLE)
INDUCTANCE @ 6.5 AMP ~ 125 uH (LESS THAN 10% RIPPLE)
INDUCTANCE = 150 uH ±15% @ LOW DC BIAS, 1 KHz, 250mV

3 SPECIFICATIONS:

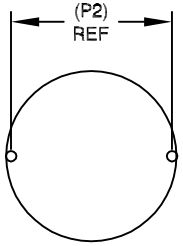
2 WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CWS BYTEMARK OR OTHER APPROVED PART
CORE: POWDERED TOROIDAL CORE

RATING CLASS H (180°C) REQUIRED

1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

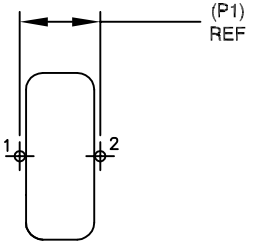



BOTTOM VIEW

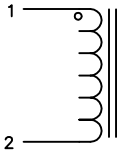



MOUNTING HOLES PATTERN

## VERTICAL




MOUNTING HOLES PATTERN




SCHEMATIC

NOTES: UNLESS OTHERWISE STATED, READ NOTES FROM BOTTOM UP

| 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 | | | |

| UNLESS OTHERWISE SPECIFIED | SIGN | DATE |
|---|---|---|
| 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 | | |
| DRAWN | BJN | 1/17/07 |
| CHECKED | JLAU | 1/17/07 |
| ENGR. | KSUM | 1/17/07 |
| APPR. | JLAU | 1/17/07 |

TITLE: POWER INDUCTOR, HIGH TEMP
150 uH, 6.5 Amp

| SIZE | DWG. NO. | REV |
|---|---|---|
| B | HF270-151M-6.5A_** | D |

SCALE 2=1 SHEET 1 OF 1



CAD-FILE: