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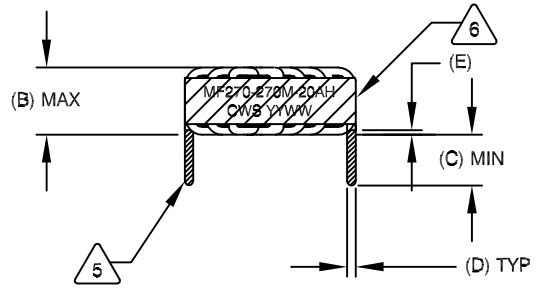
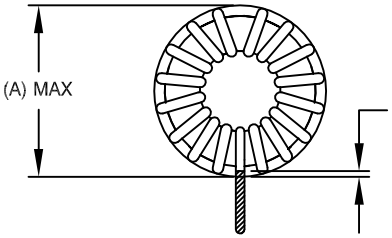
DIMENSIONAL TOLERANCE						
A (OD) MAX	B (HGT) MAX	C (LEAD) MIN	D (LEAD OD) TYP	E MIN/MAX	P1 REF	P2 REF
1.350" [34.29]	.650" [16.51]	.500" [12.70]	.071" [1.80]	.040-.060" [1.00-1.50]	.600" [15.24]	1.200" [30.48]

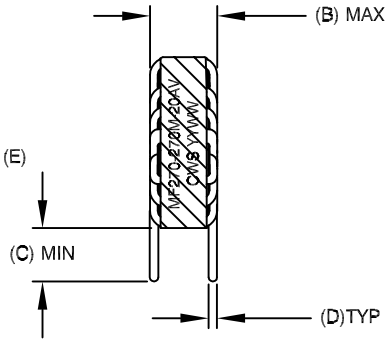
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A		INITIAL RELEASE	KLC	10/1/10	AK	10/1/10



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: ~ 49 GRAM
OPERATING TEMP: -55°C TO +180°C
HI-POT TEST FOR WINDING TO CORE ISOLATION = 1250 VDC 5 SEC
AT IDC OF 20 AMPS, LESS THAN 40 °C TEMP. RISE
DCR = 8.0 MILLI-OHMS MAX.
INDUCTANCE @ 20.0 AMP ~ 20 uH (LESS THAN 10% RIPPLE)
INDUCTANCE = 27 uH ±15% @ LOW DC BIAS, 100 KHz, 250mV

3 SPECIFICATIONS:

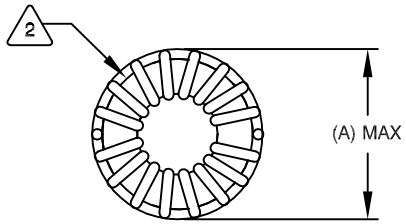
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CWS BYTEMARK OR OTHER APPROVED PART

2 CORE: POWDERED TOROIDAL CORE

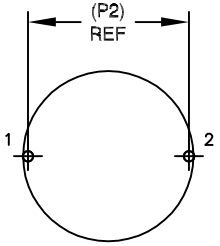
RATING CLASS H (180 °C) REQUIRED

1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

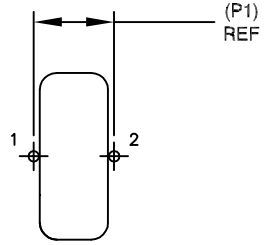
NOTES: UNLESS OTHERWISE STATED, READ NOTES FROM BOTTOM UP



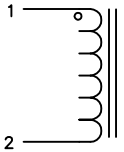
BOTTOM VIEW



MOUNTING HOLES PATTERN



MOUNTING HOLES PATTERN



SCHEMATIC

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.

PARTS LIST

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		

	SIGN	DATE
AUTOCAD	X	
SOLIDWORKS		
DRAWN	KLC	10/1/10
CHECKED	AK	10/1/10
ENGR.	KLC	10/1/10
APPR.	KLC	10/1/10

COILWS.COM, INC
www.coilws.com

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353 W Grove Ave
Orange, CA 92865

TITLE: POWER INDUCTOR, HIGH TEMP
27 uH, 20 Amp

SIZE B | DWG. NO. MF270-270M-20A_** | REV A

SCALE 2=1 | SHEET 1 OF 1

CAD-FILE: