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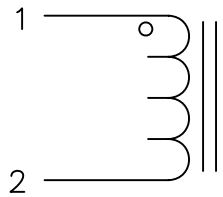
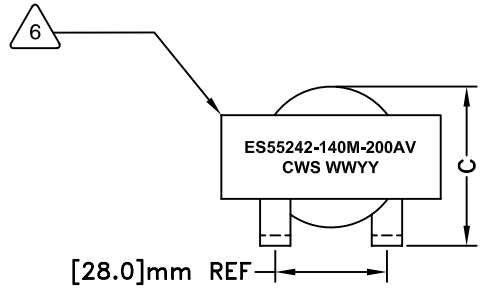
DIMENSIONAL TOLERANCE							
A MAX	B MAX	C MAX	D (LEAD) TYP	E(LEAD DIM) TYP	F(LEAD DIM) TYP	G(LEAD DIM) TYP	X REF
2.28" [58.0]	2.28" [58.0]	1.65" [42.0]	0.236" [6.00]	.079" [2.00]	.102" [2.60]	.300" [7.60]	1.10" [28.0]

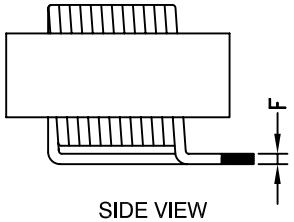
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	RJL	2/13/11	JCL	2/13/11
B		DCR VALUE CHANGE	AK	11/29/11	JLAU	11/29/11



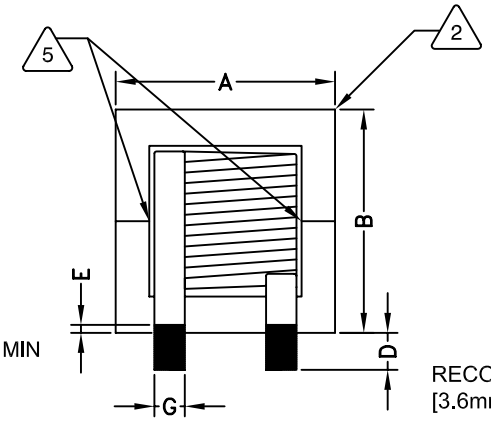
SCHEMATIC



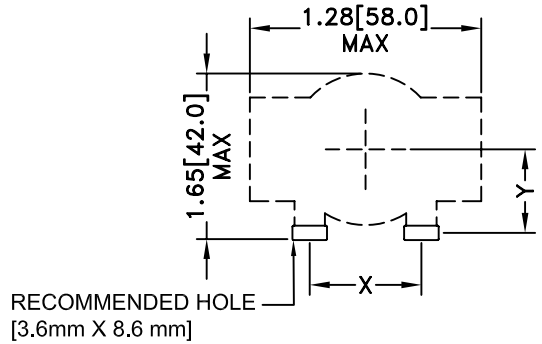
TOP VIEW



SIDE VIEW



FRONT VIEW



MOUNTING HOLE PATTERN
(TOP VIEW)

DC-BIAS	L
0A	14 uH
5A	14 uH
10A	14 uH
15A	14 uH
20A	13.8 uH
25A	13.7 uH
30A	13.2 uH
40A	12.7 uH
50A	12.3 uH
60A	11.9 uH
70A	11.5 uH
80A	10.9 uH
90A	10.6 uH
100A	10.3 uH
120A	10.2 uH
140A	10.1 uH
160A	10.0 uH
180A	10.0uH
200A	9.9 uH

7 BUILT TO RoHS COMPLIANCE AND LEAD FREE.

6 MARK PART NUMBER AND REVISION WHERE SHOWN

5 VANISH PART AND CURE
APPLY SILICON WHERE SHOWN

4 WRAP TAPE AROUND CORES
WITH CORES AND NOMEX SPACERS
ASSEMBLE PRE FORMED FLAT HELICAL COIL
CONSTRUCTION
WEIGHT: 436 GRAM (Typ)
RECOMMENDED OPERATING TEMP: -40°C TO 85°C AT 55 °C AMBIENT
HI-POT TEST FOR WINDING TO CORE ISOLATION. 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE @ 10KHZ = 15pF (TYP)
|Z|@SRF=3.6 KILO-OHM
SRF=11 MHz
RATED CURRENT: 200 AMPS
DCR= 1.10 MILLI-OHM MAX., USING GW INSTEK GOM-801H OR EQUAL
L@DC BIAS: SEE TABLE ON RIGHT.
L= 14uH ± 15%., MEASURED AT 10 KHz, 0.25V, ZERO DC BIAS

3 SPECIFICATIONS:

VANISH DOLPH or EQUAL
SILICON DOW CORNING OR EQUAL
NOMEX SPACERS FOR SIDE AND CENTER LEG OF CORES
OUTER WRAP: 3M GLASS OR EQUAL
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
2 CORE: COMPACTED POWDERED CORE

INSULATION CLASS 200°C REQUIRED
1 MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

NOTES: UNLESS OTHERWISE SPECIFIED.READ FROM BOTTOM UP.

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.

PARTS LIST

AUTOCAD		X
SOLIDWORKS		
SIGN		DATE
DRAWN	RL	2/11/11
CHECKED	JLAU	2/11/11
ENGR.	JLAU	2/11/11
APPR.	JLAU	2/11/11

UNLESS OTHERWISE SPECIFIED
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].
TOLERANCE INCHES: .XXX=±.010 .XX=±.020 ∢=±0°30'
TOLERANCE METRICS: .XXX=±.254 .XX=±.51 ∢=±0°30'
ANGLE PROJECTION
DO NOT SCALE DRAWING

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Coil Winding Specialist, Inc.
353 W GROVE AVE
ORANGE, CA 92865

TITLE: High Current Helical Inductor
14 uH, 200 Amps, Vertical

SIZE B | DWG. NO. ES55242-140M-200AV | REV B

SCALE NOT_TO_SCALE | SHEET 1 OF 1

CAD-FILE: