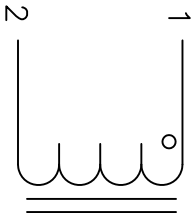


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DIMENSIONAL TOLERANCE									
A	B	C	D (LEAD) TYP	FILEAD DIM1 TYP	FILEAD DIM2 TYP	REF	X	Y	
MAX 2.28" [58.0]	MAX 2.28" [58.0]	MAX 1.65" [42.0]	0.236" [6.00]	.079" [2.00]	.102" [2.60]	1.10" [28.0]	0.91" [23.14]		

REVISION HISTORY				SIGN & DATE			
REV	ECN	DESCRIPTION		BY	DATE	CHK	DATE
A		PRODUCTION RELEASE		RL	2/13/11	JCL	2/13/11
B		DCR VALUE CHANGE		AK	11/29/11	JLW	11/29/11
C		UPDATED ELEC. SPEC.		TN	01/28/19	JL	01/28/19
C1		ADDED Y DIMENSION		TN	09/21/21	JL	09/21/21



SCHEMATIC

7 BUILT TO ROHS COMPLIANCE AND LEAD FREE.

6 MARK PART NUMBER AND REVISION WHERE SHOWN

5 VARNISH PART AND CURE
APPLY SILICONE WHERE SHOWN

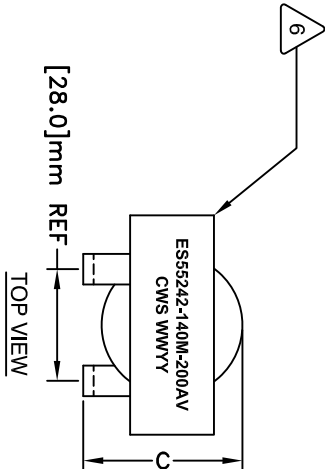
4 WRAP TAPE AROUND CORES
WITH CORES AND NOMEX SPACERS
ASSEMBLE PRE FORMED FLAT HELICAL COIL
CONSTRUCTION

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 = 13.2pF (TYP) @ SRF
|Z| = 6.5 KIL-OHMS TYP @ SRF
SRF = 11.7 MHz TYPICAL
RATED CURRENT: 200 AMPS
DCR = 1.10 MILLI-OHMS MAX., USING GW INSTTEK GOM-801H OR EQUAL
L@DC BIAS: SEE TABLE ON RIGHT.
L = 14uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS
SPECIFICATIONS:

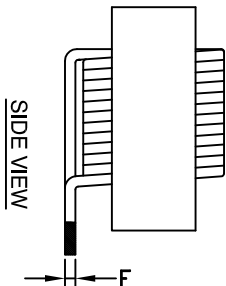
2 VARNISH DOLPH or EQUAL
SILICONE DOW CORNING or EQUAL
NOMEX SPACERS FOR SIDE AND CENTER LEG OF CORES
OUTER WRAP: 3M GLASS OR EQUAL
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
CORE: COMPACTED POWDERED CORE

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

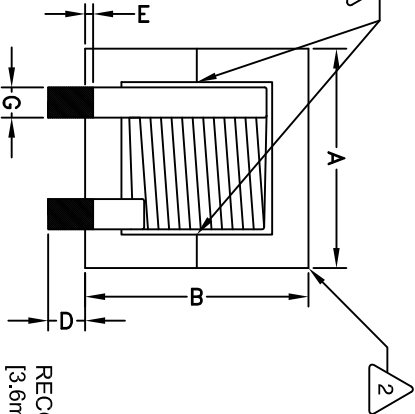
NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.



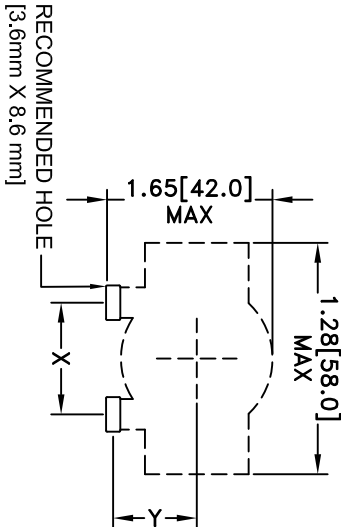
TOP VIEW



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

QTY		CODE	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST					
IDENT					
AUTOCAD		X			
SOLIDWORKS					
SIGN		DATE			
DRAWN		2/11/11			
RL					
CHECKED		2/11/11			
JLW					
ENGR.		2/11/11			
JLW					
APPR.		2/11/11			
JLW					
SCALE		B			
NOT_TO_SCALE		ES55242-140M-200AV			
SHEET		1 OF 1			

UNLESS OTHERWISE SPECIFIED

DIMENSIONING AND TOLERANCE PER ANSI Y14.5M

ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].

TOLERANCE INCHES:
XXX=±.010 XX=±.020
TOLERANCE METRICS:
XXX=±.254 XX=±.51

ANGLE PROJECTION

DO NOT SCALE DRAWING

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353 W GROVE AVE

ORANGE, CA 92665

TITLE:

High Current Helical Inductor

14 uH, 200 Amps, Vertical

SIZE

DWG. NO.

ES55242-140M-200AV

REV

C1