

SCHEMATIC

7 BUILT TO ROHS COMPLIANCE AND LEAD FREE.

6 MARK PART NUMBER AND REVISION WHERE SHOWN

5 VARNISH PART AND CURE
APPLY ADHESIVE WHERE SHOWN

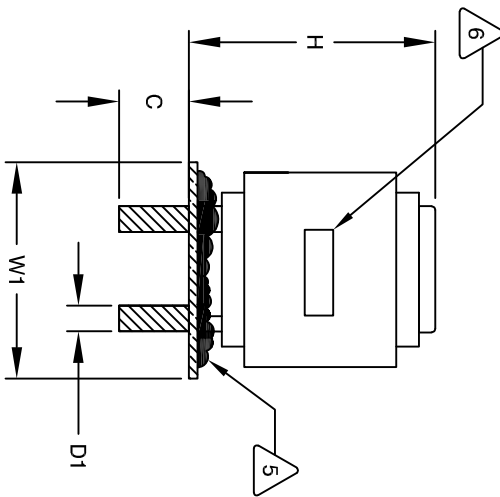
4 WRAP TAPE AROUND CORES
WITH CORES AND INSULATION SHEETS
ASSEMBLE PRE FORMED FLAT RECTANGULAR HELICAL COIL
CONSTRUCTION

3 WEIGHT: 484 GRAM TYP
MAX INDUCTOR TEMP RATING: 200°C
RECOMMENDED OPERATING TEMP: -40°C TO 85°C
HI-POT TEST FOR WINDING TO CORE ISOLATION: 1000VDC @ 2mA, 1 MIN
INTERWINDING CAPACITANCE = 11pF TYP @ SRF
|Z| = 32.25 KILLO-OHMS TYP @ SRF
SRF = 2.65 MHZ TYP
RATED CURRENT: 50 AMPS WITH FORCED AIR FLOW
DCR = 11 MILLI-OHMS MAX.
DC BIAS: SEE TABLE ON THE RIGHT.
L = 350 uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS
SPECIFICATIONS @ 25°C:

2 USE APPROVED VARNISH
INSULATION SHEETS FOR SIDES AND CENTER LEG OF CORE.
OUTER WRAP: APPROVED GLASS TAPE
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

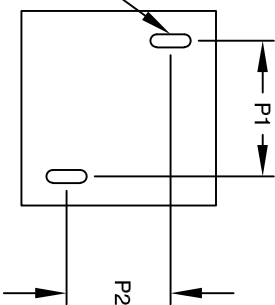
NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.
CAGE CODE: 5DME2



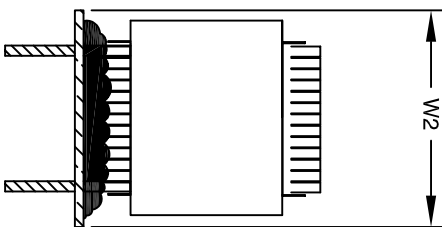
FRONT VIEW

Base

0.33X0.07
[8.5x1.85]



SIDE VIEW



DIMENSIONAL TOLERANCE

	mm	inch
C	18.70 (TYP)	0.74 (TYP)
D2	1.00 (TYP)	0.04 (TYP)
D1	7.50 (TYP)	0.30 (TYP)
W1	58.50 MAX	2.30 MAX
W2	58.50 MAX	2.30 MAX
H	73.00 MAX	2.87 MAX
P1	34.75 TYP	1.37 TYP
P2	28.35 TYP	1.12 TYP

DC BIAS TABLE

DC BIAS (AMP)	L @10KHz (TYP)
0	371uH
10	350uH
20	315uH
30	276uH
40	242uH
50	205uH
60	180uH
70	158uH
80	134uH
90	118uH
100	97uH

MOUNTING HOLES PATTERN (TOP VIEW)

BOTTOM VIEW

PARTS LIST

QTY	CODE	IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
UNLESS OTHERWISE SPECIFIED					
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M					
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS]:					
TOLERANCE INCHES: <= .40 .30' <= .40 .30'					
TOLERANCE METRICS: .XXX=±.010 .XX=±.020 .X=±.030					
.XXX=±.025 .XX=±.031 .X=±.030					
ANGLE PROJECTION					
DO NOT SCALE DRAWING					
AUTOCAD SOLIDWORKS					
SIGN DATE					
DRAWN TN 01/31/2020					
ENGR. JL 01/31/2020					
APPR. JL 01/31/2020					
TITLE: Low Cost Inductor, Rectangular Helical Coil					
350uH, 50 Amps, Horizontal					
SIZE [DWG. NO.] B LCEK28B62-351M-50AH					
SCALE NOT_TO_SCALE					
SHEET 1 OF 1					

REVISION HISTORY			
REV	ECN	DESCRIPTION	SIGN & DATE
A		PRODUCTION RELEASE	BY DATE CHK DATE
A1	021324	UPDATED DC BIAS TABLE & REVISED SPEC. DESCRIPTION	TN 01/31/2020 JL 01/31/2020