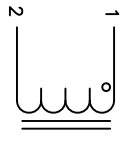
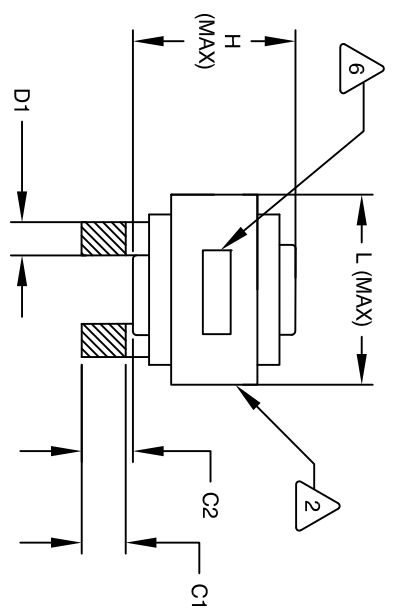


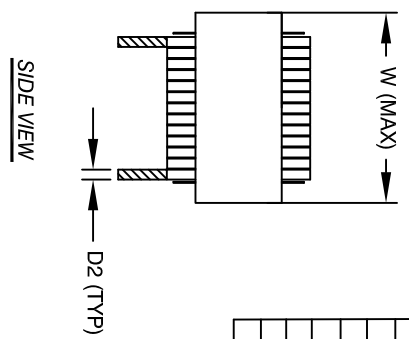
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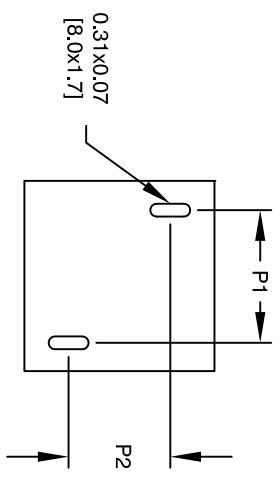
SCHEMATIC



FRONT VIEW

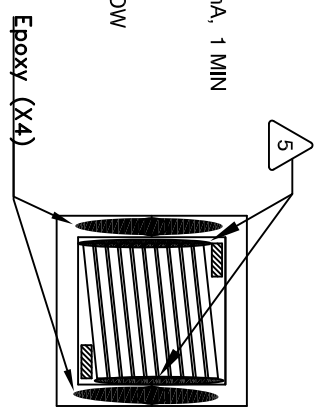


SIDE VIEW



MOUNTING HOLES PATTERN

BOTTOM VIEW



- 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  
WRAP TAPE AROUND CORES  
WITH MULTI-GAPPED CORES AND MYLAR SHEETS  
ASSEMBLE PRE FORMED FLAT RECTANGULAR HELICAL COIL  
CONSTRUCTION
- 4 WEIGHT: 433 GRAMS TYP  
RECOMMENDED OPERATING TEMP: -40°C TO 85°C  
HIPOT TEST FOR WINDING TO CORE ISOLATION: 1000VDC @ 2mA, 1 MIN  
INTERWINDING CAPACITANCE = 5pF TYP @ SRF  
|Z| = 17 KILO-OHMS TYP @ SRF  
SRF = 5.7 MHZ TYP  
RATED CURRENT: 35 AMPS WITH APPROPRIATE FORCED AIR FLOW  
DCR = 15 MILLIOHMS MAX.  
DC BIAS: SEE TABLE ON THE RIGHT.  
L = 180 uH ± 15%, MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS  
SPECIFICATIONS @ 25°C:
- 3 VARNISH DOLPH or EQUAL  
SILICONE DOW CORNING OR EQUAL  
MYLAR SHEETS FOR SIDES AND CENTER LEG OF CORES  
OUTER WRAP: 3M GLASS TAPE OR EQUAL  
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE  
CORE: SLICED MULTI-GAP FOR LOW LOSS FERRITE CORE
- 2 INSULATION CLASS 200°C REQUIRED  
MATERIAL: UL RECOGNIZED 94V-0 FOR FLAMMABILITY

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

REVISION HISTORY				SIGN & DATE		
REV	ECN	DESCRIPTION	BY	DATE	CHK	DATE
A		PRODUCTION RELEASE	TN	02/25/2020	JL	02/25/2020

	mm	inch
C1	12.00±1.00	0.47±0.04
C2	13.00±1.00	0.51±0.04
D2	0.70 (TYP)	0.03 (TYP)
D1	7.00 (TYP)	0.30 (TYP)
L	57.15 MAX	2.25 MAX
W	56.50 MAX	2.20 MAX
H	44.15 MAX	1.74 MAX
P2	36.30±1.00	1.43±0.04
P1	27.00±1.00	1.06±0.04

DC BIAS (AMP)	L @10KHz (TYP)
0A	186uH
1A	186uH
2A	186uH
3A	186uH
4A	186uH
5A	186uH
6A	186uH
7A	186uH
8A	186uH
9A	186uH
10A	186uH
15A	185uH
20A	185uH
25A	183uH
30A	180uH
35A	173uH

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

AUTOCAD SOLIDWORKS		PARTS LIST	
DATE	SIGN	DATE	SIGN
02/25/2020	JL	02/25/2020	JL

UNLESS OTHERWISE SPECIFIED		DIMENSIONING AND TOLERANCE PER ANSI Y14.5M AND DIMENSIONS ARE IN INCHES AND [DIMETERS].	
TOLERANCE INCHES:	∠=±0.30'	∠XXX=±0.10	∠XX=±0.20
TOLERANCE METRICS:	∠=±0.30'	∠XXX=±0.254	∠XX=±0.51
ANGLE PROJECTION	∠=±0.30'	DO NOT SCALE DRAWING	

DRAWN		TITLE	
TN	02/25/2020	Multi-Gapped Ferrite Inductor, Rectangular Helical Coil	
JL	02/25/2020	180 uH, 35 Amps, Horizontal	

APPR		SCALE	
JL	02/25/2020	B	NOT TO SCALE

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