

SCHEMATIC

- 8 APPLICATION: ENERGY STORAGE FILTER, SWINGING CHOKE
- 7 BUILT TO ROHS COMPLIANCE AND LEAD FREE

- 6 MARK PART NUMBER, REVISION AND DATE CODE WHERE SHOWN
- 5 VARNISH PART AND CURE
- APPLY SILICON WHERE SHOWN

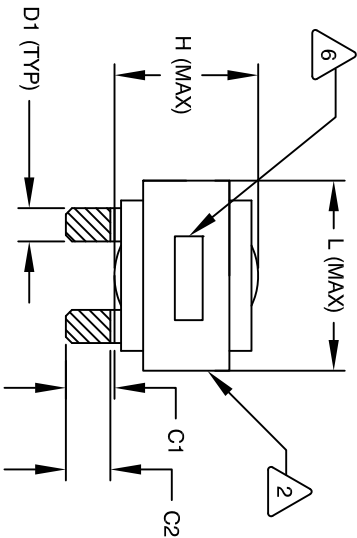
- 4 WRAP TAPE AROUND CORES
- WITH CORES AND NOMEX SPACERS
- ASSEMBLE PRE FORMED FLAT HELICAL COIL
- CONSTRUCTION:

- 3 WEIGHT: 397 GRAM (TYP)
- MAX INDUCTOR TEMP RATING: 200°C
- INDUCTOR OPERATING TEMP. RANGE: -40°C TO 85°C
- HI-POT TEST FOR WINDING TO CORE ISOLATION: 1000VDC @ 2mA, 1 MIN
- INTERWINDING CAPACITANCE = 8.10pF (TYP) @ SRF
- |Z| = 13.57 KILLO-OHM (TYP) @ SRF
- SRF = 5.32 MHz (TYP)
- INDUCTOR RATED CURRENT: 35 AMPS
- DCR = 15.0 MILLI-OHM MAX.
- INDUCTOR @ DC BIAS: SEE TABLE ON THE RIGHT
- L = 130 uH ± 15% MEASURED AT 10 KHZ, 0.25V, ZERO DC BIAS
- SPECIFICATIONS @ 25°C:

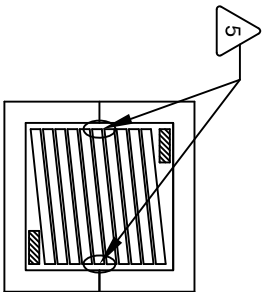
- 2 VARNISH DOLPH or EQUAL
- SILICON DOW CORNING OR EQUAL
- NOMEX SPACERS FOR SIDE AND CENTER LEG OF CORES
- OUTER WRAP: 3M GLASS OR EQUAL
- WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE
- CORE: COMPACTED POWDERED CORE

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

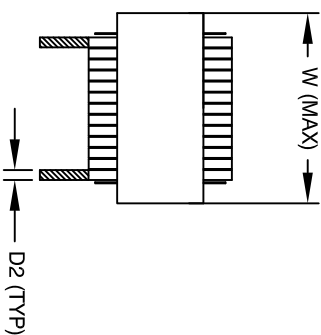
NOTES: UNLESS OTHERWISE SPECIFIED, READ FROM BOTTOM UP.
CAGE CODE: 5DME2



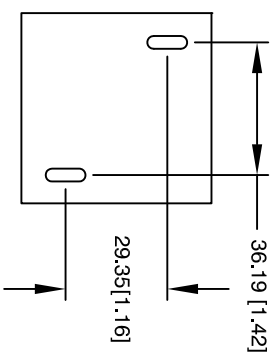
FRONT VIEW



BOTTOM VIEW



SIDE VIEW



MOUNTING HOLES PATTERN

DIMENSIONAL TOLERANCE

| | mm | inch |
|----|-------------|------------|
| C1 | 17.80 (TYP) | 0.70 (TYP) |
| C2 | 13.45 (TYP) | 0.53 (TYP) |
| D1 | 7.05 (TYP) | 0.28 (TYP) |
| D2 | 0.80 (TYP) | 0.03 (TYP) |
| L | 67.0 MAX | 2.64 MAX |
| W | 72.0 MAX | 2.83 MAX |
| H | 40.0 MAX | 1.57 MAX |

INDUCTOR DC BIAS TABLE

| DC BIAS | INDUCTANCE (TYP) |
|---------|------------------|
| 0A | 129 uH |
| 5A | 129 uH |
| 10A | 129 uH |
| 15A | 129 uH |
| 20A | 128 uH |
| 25A | 126 uH |
| 30A | 118 uH |
| 35A | 77 uH |
| 40A | 50 uH |

REVISION HISTORY

| REV | ECN | DESCRIPTION | BY | DATE | CHK | DATE |
|-----|-----|---------------------------------|----|----------|-----|----------|
| A | | PRODUCTION RELEASE | TN | 04/06/18 | JL | 04/06/18 |
| A1 | | CORRECTED TYPO IN RATED CURRENT | TN | 05/12/18 | JL | 05/12/18 |

| QTY | CODE IDENT | MFG. P/N | DESCRIPTION | ITEM NO. |
|-----|------------|----------|-------------------------------|----------|
| | | | PARTS LIST | |
| | | | www.coilws.com | |
| | | | sales@coilws.com | |
| | | | Coil Winding Specialist, Inc. | |
| | | | 353 W. GROVE AVE | |
| | | | ORANGE, CA 92665 | |
| | | | TITLE: | |
| | | | High Current Helical Inductor | |
| | | | 130 uH, 40 Amps, Horizontal | |
| | | | SCALE: | |
| | | | NOT_TO_SCALE | |
| | | | SHEET 1 OF 1 | |