

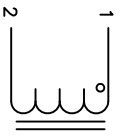
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REVISION HISTORY

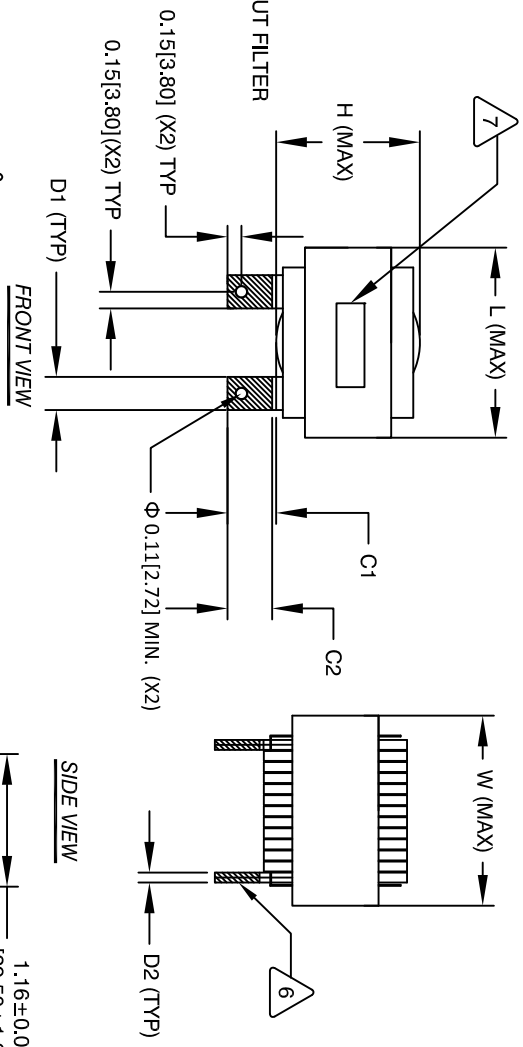
REV	ECN	DESCRIPTION	DATE
A		PRODUCTION RELEASE	11/28/18

DIMENSIONAL TOLERANCE

	mm	inch
C1	13.0±1.00	0.51±0.04
C2	12.0±0.50	0.47±0.02
D1	7.6 (TYP)	0.30 (TYP)
D2	5.2 (TYP)	0.20 (TYP)
L	56.0 MAX	2.20 MAX
W	57.0 MAX	2.24 MAX
H	36.0 MAX	1.41 MAX



SCHEMATIC



- 9 APPLICATION: OUTPUT CHOKE, HIGH DC-BIAS INDUCTOR, INPUT FILTER
- 8 BUILT TO ROHS COMPLIANCE AND LEAD FREE
- 7 MARK PART NUMBER AND REVISION WHERE SHOWN
- 6 LEADS MUST BE TINNED ALL SIDES AND TOGETHER
- 5 VARNISH PART AND CURE  
APPLY SILICONE WHERE SHOWN  
WRAP TAPE AROUND CORES  
WITH CORES AND MYLAR SHEETS  
ASSEMBLE PRE FORMED FLAT HELICAL COIL  
CONSTRUCTION
- 4 WEIGHT: 476 GRAMS (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 = 8.52pF TYP @ SRF  
|Z| = 666 OHMS TYP @ SRF  
SRF = 25.5 MHZ TYP  
RATED CURRENT: 330 AMPS WITH FORCED AIR FLOW  
DCR = 0.3 MILLIOHM MAX.  
INDUCTOR DC BIAS: SEE TABLE ON THE RIGHT  
L = 4.5 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 OR EQUAL  
WIRE: UL RECOGNIZED 200°C RATED MAGNET WIRE  
CORE: COMPACTED POWDERED 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

BOTTOM VIEW

MOUNTING HOLES PATTERN

QTY	CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
				300A

PARTS LIST

www.coilws.com  
353 W. GROVE AVE  
ORANGE, CA 92665

High Current Helical Inductor  
4.5 uH, 330 Amps, Horizontal

UNLESS OTHERWISE SPECIFIED	
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M AND [DIMETERS].	DRAWN TN 11/28/18
TOLERANCE INCHES: .XXX±.010 .XX±.020 .X±.030 .XXX±.254 .XX±.51	ENGR. JL 11/28/18
ANGLE PROJECTION	APPR. JL 11/28/18
DO NOT SCALE DRAWING	

AUTOCAD SOLIDWORKS SIGN	DATE
X	

SIZE	DWG. NO.	SCALE	SHEET	OF
B	EK55246-4R5M-330AH	NOT_TO_SCALE	1	1