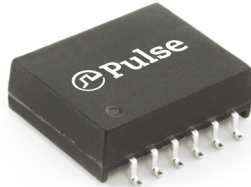
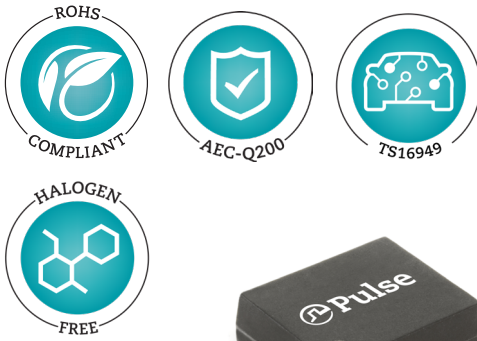


# Halogen Free BMS Transformer

Approved for ADBM6830 16-channel multicell battery monitor IC



- Fully qualified with leading BMS Silicon from ADI
- UL Compliance to IEC/UL62368-1
- Low profile height 4.88mm max
- High temperature performance up to +125°C
- Automated Winding and Production Process

## Applications:

Ideal for Electric Vehicles (EV), Energy Storage (ESS) and marine or aviation transportation.

### Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

Part Number	Inductance (100kHz, 100mVrms)	Turns Ratio	Choke fitted	Isolation breakdown (Pri:Sec)	Working Voltage	Insulation & Creepage (mm)	Operating Temperature	Qualified BMS Silicon
HM2171HL	150 uH min 450 uH max	1.00 +/- 2%	YES	4300Vrms / 60sec	1500VDC	Functional >3mm	-40 to +125°C	ADI - ADBM6830

## Additional Electrical performance

### RJ45 Material Specification

Part Number	Leakage Inductance (Max)	Winding DCR ( $\Omega$ )		Insertion Loss	Return Loss	CMRR	
		PHY Side	Line Side		Z out = 100 $\Omega$	1 - 10MHz	10- 1000MHz
HM2113ZNL	0.50 uH @ 100kHz	0.45 max	0.85 max	-0.30dB max @ 4MHz	-20 dB min @ 4MHz	-35dB	-20dB

#### Notes:

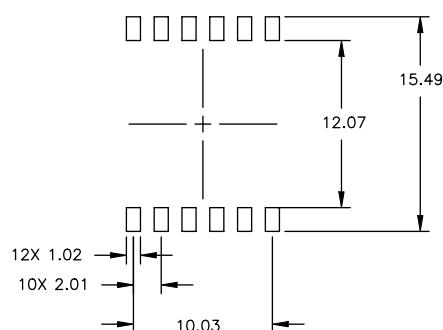
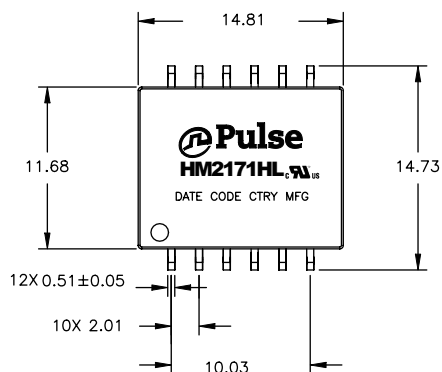
- Storage Temperature: -50°C to +125°C
- Compliance to J-STD:
  - J-STD-002: Solderability at 245°C Reflow Profile
  - J-STD-020: Moisture Sensitive Level 1
  - J-STD-075: R7, 245°C Maximum Through Reflow Solder
- The NL suffix part comes in Tubes with 35pcs per tube. To order tape and reel packaging add a 'T' suffix to the part number (ie: HM2171HL becomes H2171HLT). Quantity per reel is 350pcs/reel.
- Header: DAP (Diallyl Phthalate) with flammability Rating UL 94V-0 or better
- Lead Frame: Cooper Alloy  
Under plated: Half Hard Ductile Nickel 50-100" (1.3-2.5um)  
Over plated : 100% Tin electro-deposited per ASTM B545 300 - 50u" (8-13um)  
Finish : Matte finish 100% Tin solder
- AEC-Q200 Qualified, PPAP on request

# Halogen Free BMS Transformer

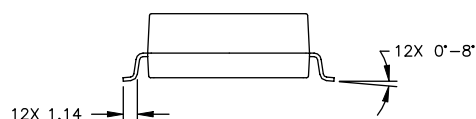
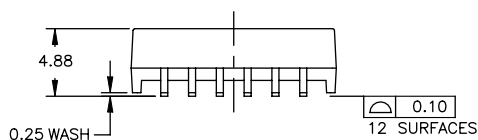
Approved for ADBM6830 16-channel multicell battery monitor IC

## MECHANICAL

HM2171HL



SUGGESTED LAND PATTERN

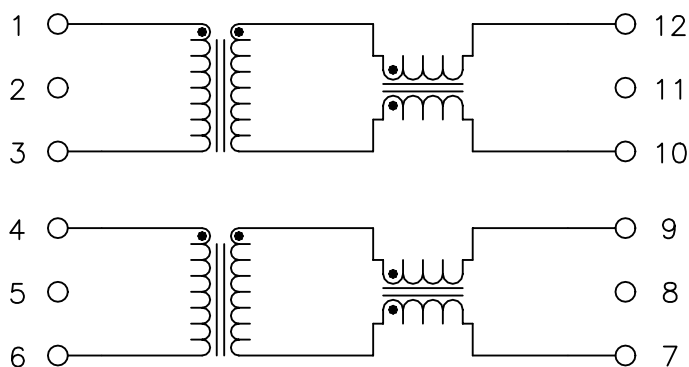


### Dimensions:

Unless otherwise specified,  
all tolerances are  $\pm 0.25$

## SCHEMATIC

HM2171HL

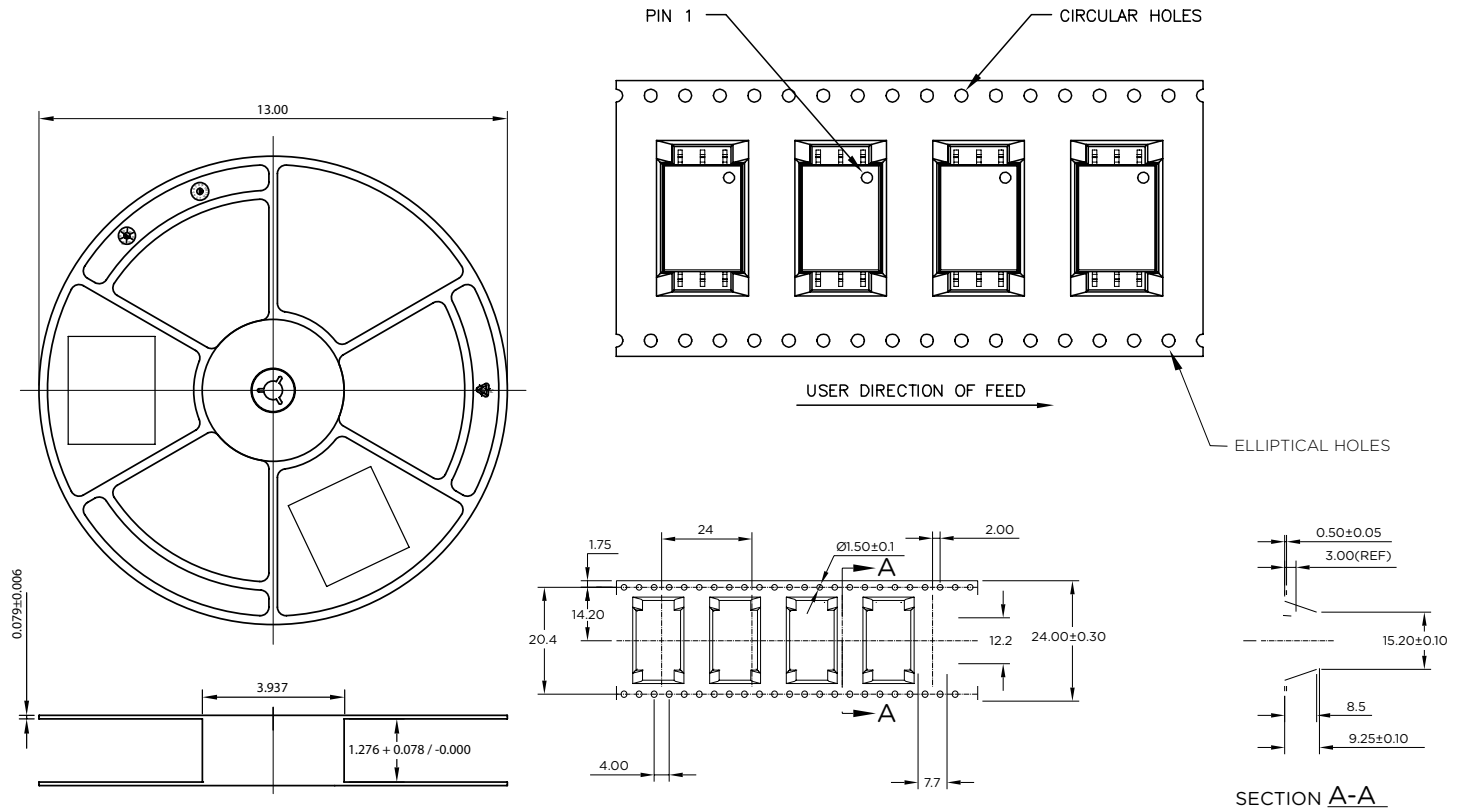


# Halogen Free BMS Transformer

Approved for ADBM6830 16-channel multicell battery monitor IC

## TAPE & REEL

HM2171HL



### For More Information:

Americas - [prodinfonetworkamericas@yageo.com](mailto:prodinfonetworkamericas@yageo.com) | Europe - [comms-apps-europe@yageo.com](mailto:comms-apps-europe@yageo.com) | Asia - [prodinfonetworkapac@yageo.com](mailto:prodinfonetworkapac@yageo.com)

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