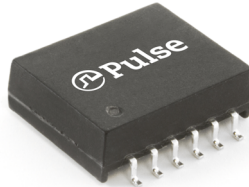
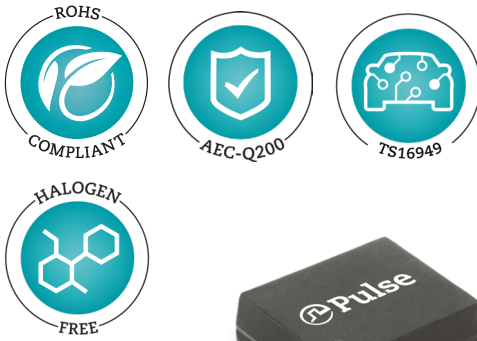


Halogen Free BMS Transformer

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.

Operating Temperature - see Table Below

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

Electrical (Cont...)

Part Number	Leakage Inductance (Max)	Winding DCR (Ω)		Insertion Loss	Return Loss	CMRR	
		PHY Side	Line Side		Z out = 100 Ω	1 - 10MHz	10 - 1000MHz
HM2171HL	0.50 uH @ 100kHz	0.45 max	0.85 max	-0.30dB max @ 4MHz	-20 dB min @ 4MHz	-35dB	-20dB

Notes:

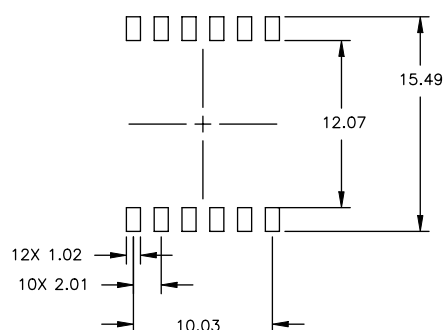
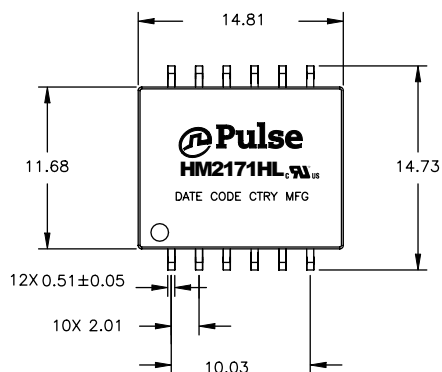
- Storage Temperature: -50°C to +125°C
- Compliance to J-STD:
 - J-STD-002: Solderability at 245°C Reflow Profile
 - J-STD-020: Moisture Sensitive Level 1
 - J-STD-075: R7, 245°C Maximum Through Reflow Solder
- The HL suffix part comes in Tubes with 35pcs per tube. To order tape and reel packaging add 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

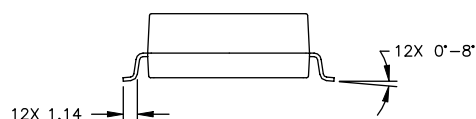
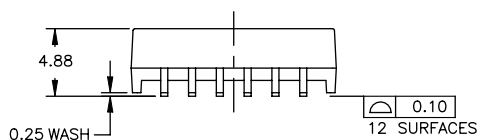
Approved for ADBM6830 16-channel multicell battery monitor IC

MECHANICAL

HM2171HL



SUGGESTED LAND PATTERN

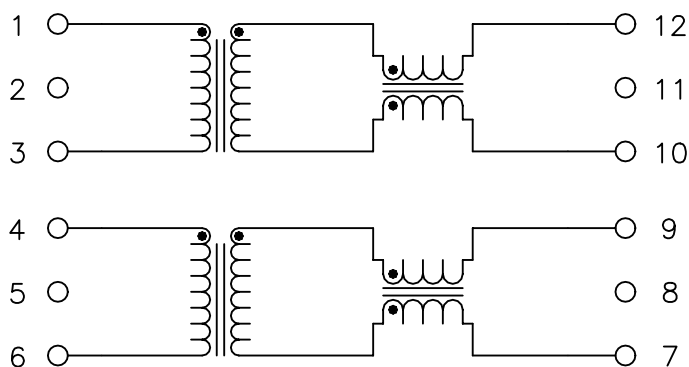


Dimensions:

Unless otherwise specified,
all tolerances are ± 0.25

SCHEMATIC

HM2171HL

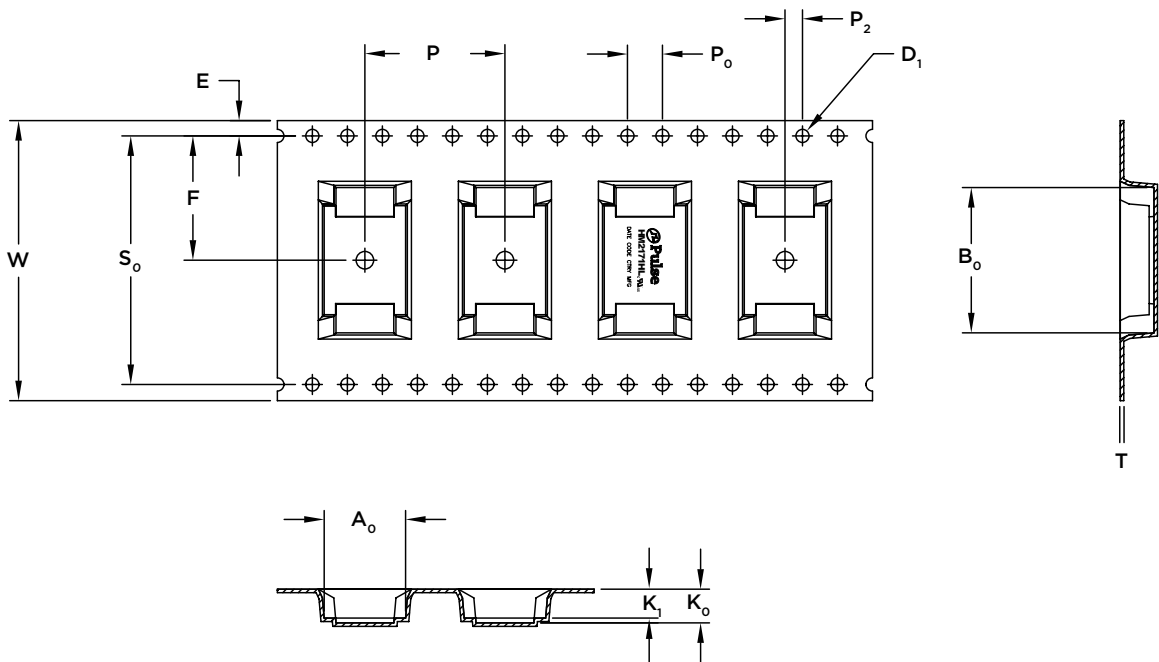


Halogen Free BMS Transformer

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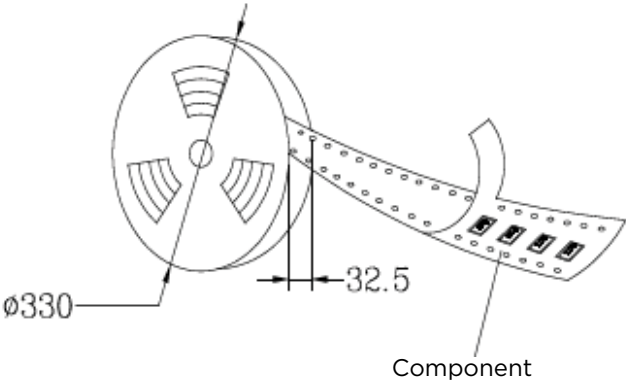
TAPE & REEL

HM2171HL



W	32.0±0.30	P	16.00	A ₀	9.30	B ₀	16.60
S ₀	28.40	P ₀	4.00	A ₁	-----	B ₁	-----
E	1.75	P ₂	2.00	A ₂	-----	B ₂	-----
F	14.20	D ₀	-----	K ₀	3.85	K ₁	3.30
T	0.40±0.05	D ₁	1.50 ±0.10 -0.00				UNIT: mm

All Dimensions meet EIA-481-D requirements.



- 1. **Material:** Black Conductive Polystyrene
- 2. **Components per Reel:** 1000 pcs
- 3. **Quantity per box:** 5x reels = 5000 pcs

For More Information:

Americas - prod_info_network_americas@yageo.com | Europe - prod_info_network_emea@yageo.com | Asia - prod_info_network_apac@yageo.com

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