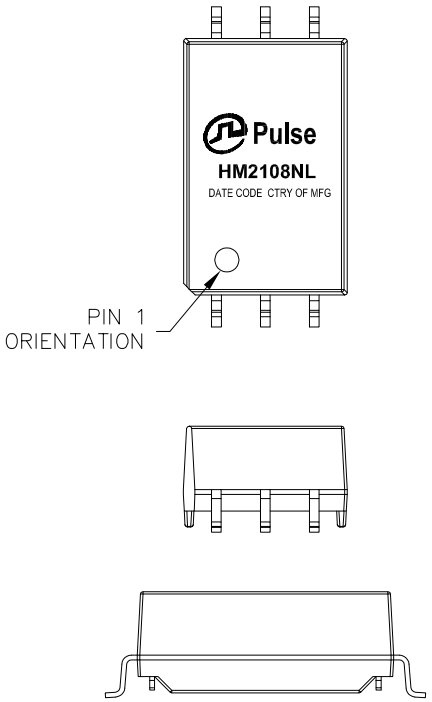
NOTES:

1. ROHS COMPLIANT
2. STORAGE TEMPERATURE: −50°C TO +125°C
3. COMPLIANCE TO J−STD:
   - A. J−STD−002: SOLDERABILITY AT 245°C REFLOW PROFILE
   - B. J−STD−020: LEVEL 1, NO MOISTURE SENSITIVE
   - C. J−STD−075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
4. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX

   TO THE PART NUMBER(i.e HXXXXXXNL BECOMES HXXXXXXNLT).
5. PACKING SPECIFICATION:
   REEL SIZE: 330mm
   TAPE WIDTH: 32mm
   TAPE PITCH: 16mm

   COMPONENTS PER REEL: 600 pcs



FINAL OUTLINE

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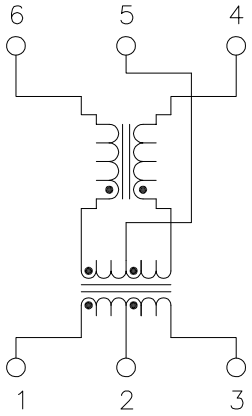
PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
TRANSFORMER/CMC,4.3kVDC ISO,SGL,SMT	HM2108NL−P3	PS−00249.003−01	1 OF 5	HM2108NL	D



SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

PARAMETER	SPECIFICATIONS	
QUALIFICATION	PER AEC-Q200	
DESIGN CONSTRUCTION	BASIC INSULATION PER ISO6469/IEC60664	
CREEPAGE DISTANCE	> 11mm	
OPERATING TEMPERATURE	-40°C TO +125°C	
TURNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
DC RESISTANCE	TRANSFORMER SIDE	CM CHOKE SIDE
	0.45 OHMS MAX	0.85 OHMS MAX
▽ INDUCTANCE (OCL) AT 100 kHz, 100 mV	135 uH MIN, 370 uH MAX (-40°C≤T≤-30°C) 150 uH MIN, 370 uH MAX (-30°C<T≤125°C)	
LEAKAGE INDUCTANCE	0.50 uH MAX @ 100 kHz	
▽ INSERTION LOSS	0.35 dB MAX @ 4 MHz	
RETURN LOSS (Z OUT = 100 OHM ±1%)	20 dB MIN @ 4 MHz	
COMMON MODE REJECTION RATIO	1-10 MHz	10-1000 MHz
	-35 dB MIN	-20 dB MIN
▽ INPUT - OUTPUT ISOLATION	4300 VDC FOR 60 SECONDS WITH 1.0 mA MAX OF LEAKAGE CURRENT	
INSULATION RESISTANCE	400 MEGAOHMS MINIMUM	
WORKING VOLTAGE	1000 VDC FOR 15 YEARS	

NOTE: "▽" IS SPECIAL CHARACTERISTIC.

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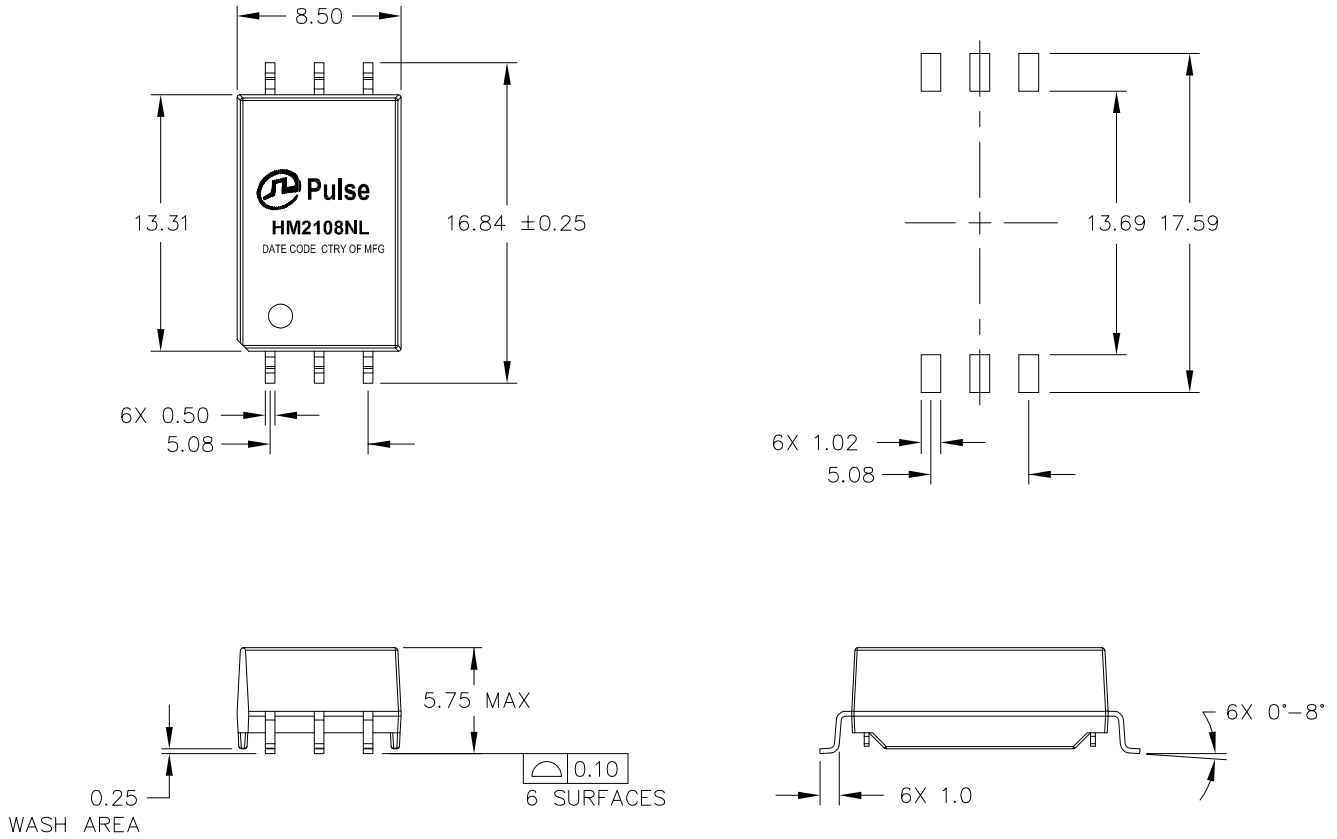

DIMENSIONS ARE IN MILLIMETERS WITH THE FOLLOWING TOLERANCES:
X.X= ±0.25
X.XX= ±0.13

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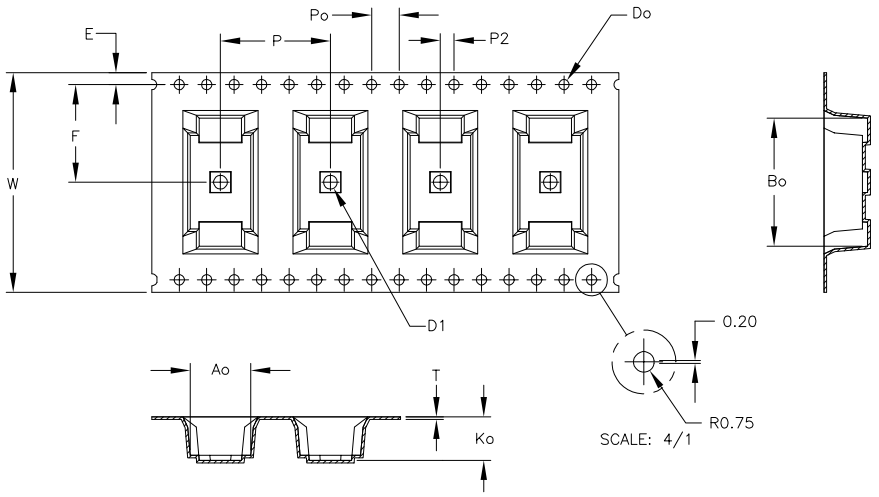
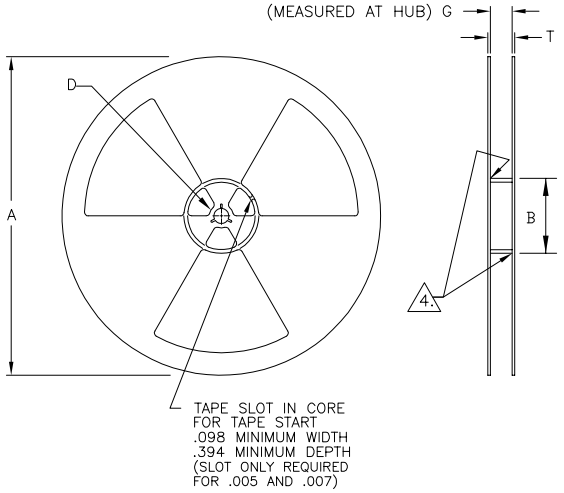
TRANSFORMER/CMC,4.3kVDC ISO,SGL,SMT	HM2108NL–P3	PS–00249.003–01	3 OF 5	HM2108NL	D

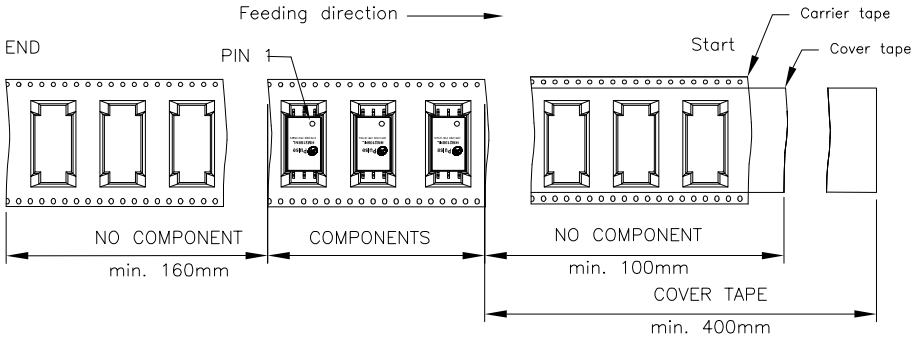
USER DIRECTION OF FEED

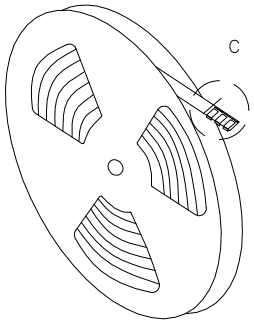


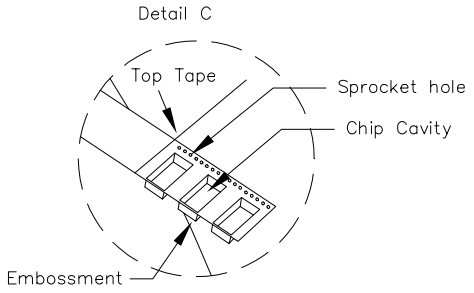


ITEM	W	Ao	Bo	Ko	K1	P	F	E	Do	D1	Po	P2	T
DIM	32.00 ±0.30	8.8 ±0.10	18.6 ±0.10	6.35 ±0.10		16.00 ±0.10	14.2 ±0.10	1.75 ±0.10	1.50 +0.10 −0.00	2.0 +0.10 −0.00	4.00 ±0.10	2.00 ±0.10	0.40 ±0.05

		A	B	D	T	G	G
Tolerance			min.	min.	max.	min.	max.
Tape width	mm	330.00	100.00	20.20	38.4	32.4	34.4







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TRANSFORMER/CMC,4.3kVDC ISO,SGL,SMT	HM2108NL−P3	PS−00249.003−01	4 OF 5	HM2108NL	D

REVISION HISTORY:

REV	DESCRIPTION
A	NEW DS
B	CHANGE QUALIFICATION AND ISOLATION; ADD DESIGN CONSTRUCTION AND CREEPAGE DISTANCE, INSULATION RESISTANCE
C	UPDATE OCL AND ADD PACKING SPECIFICATION
D	ADD SC WITH "▽" AND UPDATE OCL ; AND CHANGE DIMENSION FROM 6X 1.00 TO 6X 1.0

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