

ECN/PCN No.: M1666

## For Manufacturer

<b>Product Description:</b> 10/100/1000 Base-T Single Port, Traditional SMD LAN Transformer	<b>Abracon Part Number / Part Series:</b> ALANS10001	<input type="checkbox"/> Documentation only <input checked="" type="checkbox"/> Series <input checked="" type="checkbox"/> ECN <input type="checkbox"/> Part Number(s) <input type="checkbox"/> EOL
<b>Affected Revision:</b> A	<b>New Revision:</b> B	<b>Application:</b> <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety

### Prior to Change:

Part produced in the existing production line with the same electrical and mechanical specifications.

### After Change:

The change details are provided below.

### Before change

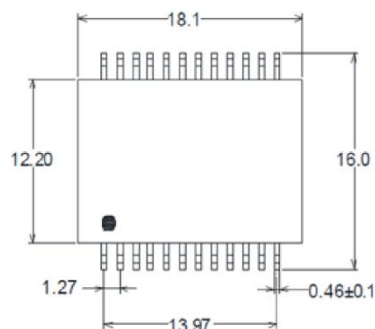
#### Electrical Specifications at 25°C

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)				Crosstalk (dB Min)			CMRR (dB Min)			DCMR (dB Min)		
	0.1-100 MHz	1-40 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz
ALANS10001-3J11	1.0	18	15	12	10	42	38	34	40	36	32	46	38	31
ALANS10001-3J61	1.0	18	15	12	10	42	38	34	40	36	32	46	38	31
ALANS10001-3J41	1.0	18	15	12	10	42	38	34	40	36	32	46	38	31
ALANS10001-4J11	1.0	18	15	12	10	42	38	34	40	36	32	46	38	31
ALANS10001-4J61	1.0	18	15	12	10	42	38	34	40	36	32	46	38	31
ALANS10001-4J41	1.0	18	15	12	10	42	38	34	40	36	32	46	38	31

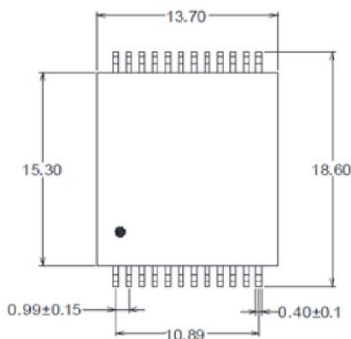
Part Number	Inductance (uH Min)	Leakage Inductance (uH Max)	Interwinding Capacitance (pF Max)	DC Resistance (Ω Max)		Hi Pot (VDC)
	@100kHz, 0.1V, 8mA DC Bias	@100kHz, 0.1V TD to MX	@100kHz, 0.1V TD to MX	Primary	Secondary	0.5mA/6 sec.
ALANS10001-3J11	350	0.35	35	0.9	1.2	2500
ALANS10001-3J61	350	0.35	35	1.2	0.9	2500
ALANS10001-3J41	350	0.35	35	0.9	0.9	2500
ALANS10001-4J11	350	0.35	35	0.9	1.2	2500
ALANS10001-4J61	350	0.35	35	1.2	0.9	2500
ALANS10001-4J41	350	0.35	35	0.9	0.9	2500

### Mechanical specifications Before change

#### 3: 24-pin option 1



#### 4: 24-pin option 2



## After change

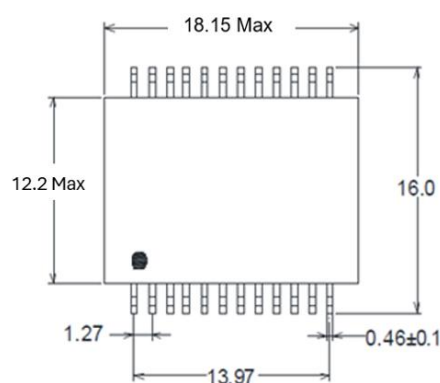
### Electrical Specifications

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)				Crosstalk (dB Min)	CMRR (dB Min)	DCMR (dB Min)
	0.1-100 MHz	1-40 MHz	60 MHz	80 MHz	100 MHz	1-100 MHz	1-100 MHz	1-100 MHz
ALANS10001-3J11	1	-16	-12	-10	-8	-30	-30	-30
ALANS10001-3J61	-1.2	-16	-12	-10	-8	-30	-30	-30
ALANS10001-3J41	1	-18	-16	-14	-10	-30	-30	-30
ALANS10001-4J11	-1.2	-16	-14	-12	-10	-30	-30	-30
ALANS10001-4J61	1	-16	-14	-12	-10	-30	-30	-30
ALANS10001-4J41	1	-16	-14	-12	-10	-30	-30	-30

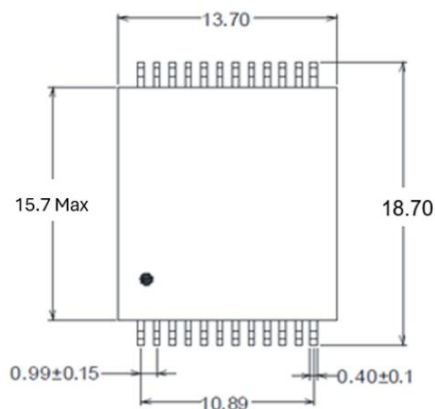
Part Number	Inductance ( $\mu$ H Min)	Leakage Inductance ( $\mu$ H)	Interwinding Capacitance (pF Max)	DC Resistance ( $\Omega$ Max)		Hi Pot (V <sub>rms</sub> )
	@100kHz, 0.1V, 8mA DC Bias	@100kHz, 0.1V, Td to Mx	@100kHz, 0.1V, Td to Mx	Primary	Secondary	1 mA/60 sec.
ALANS10001-3J11	350	0.35	35	0.9	1.2	1500
ALANS10001-3J61	350	0.35	35	1.2	0.9	1500
ALANS10001-3J41	350	0.35	35	0.9	0.9	1500
ALANS10001-4J11	350	0.35	35	0.9	1.2	1500
ALANS10001-4J61	350	0.35	35	1.2	0.9	1500
ALANS10001-4J41	350	0.35	35	0.9	0.9	1500

### Mechanical specifications after change

**3: 24-pin option 1**



**4: 24-pin option 2**



<b>Cause/Reason for Change:</b>		
Production line transfer to improve manufacturing efficiency and consistency.		
<b>Change Plan</b>		
<b>Effective Date:</b> 09/25/2025	<b>Additional Remarks:</b>	
<b>Change Declaration:</b> Minor changes in electrical and mechanical specifications, within acceptable limits. Layout remains unchanged.		
<b>Issued Date:</b> 09/25/2025	<b>Issued By:</b> Baji suryadevara	<b>Issued Department:</b> Engineering
<b>Approval:</b> Syed Raza CTO	<b>Approval:</b> Reuben Quintanilla Quality Director	<b>Approval:</b> Ying Huang Purchasing Director
<b>For Abracon EOL only</b>		
<b>Last Time Buy (if applicable):</b>		<b>Alternate Part Number / Part Series:</b>
<b>Additional Approval:</b>	<b>Additional Approval:</b>	<b>Additional Approval:</b>
<b>Customer Approval (If Applicable)</b>		
<b>Qualification Status:</b>		
<input type="checkbox"/> Approved <input type="checkbox"/> Not accepted		
<i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>		
<b>Customer Part Number:</b>		<b>Customer Project:</b>
<b>Company Name:</b>	<b>Company Representative:</b>	<b>Representative Signature:</b>
<b>Customer Remarks:</b>		