

ECN/PCN No.: M1718

For Manufacturer

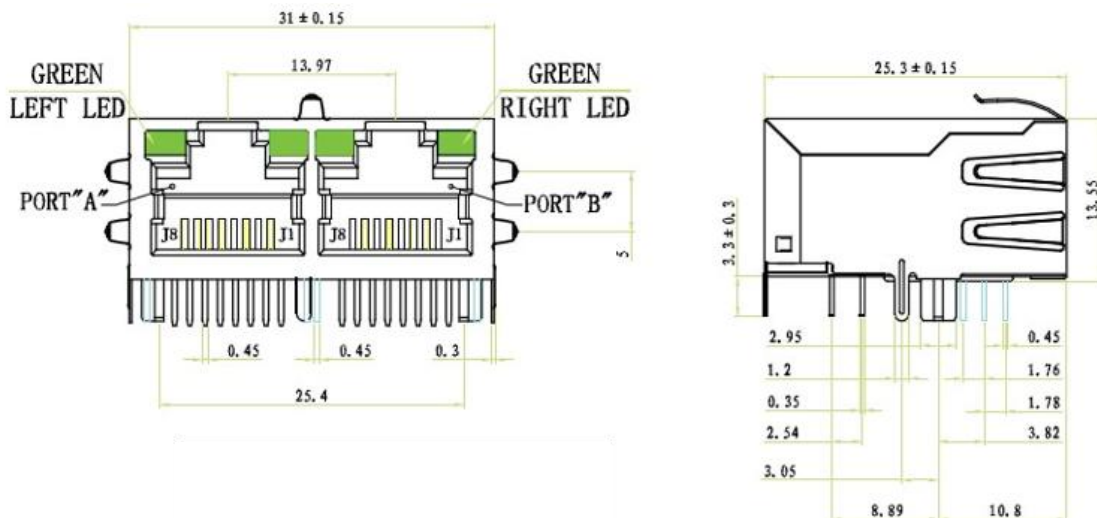
Product Description: RJ45 1000BASE-T, 1X2, TAB UP W/ LEDS, EXTENDED TEMPERATURE	Abrakon Part Number / Part Series: ARJ-202B	☐ Documentation only ☐ Series ☒ ECN ☒ Part Number(s) ☐ EOL
Affected Revision: Initial Rev	New Revision: A	Application: ☐ Safety ☒ Non-Safety

Prior to Change:

STANDARD SPECIFICATIONS

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio ($\pm 3\%$)	1CT:1CT				Tx
	1CT:1CT				Rx
Inductance (OCL)	350			μ H	100KHz/0.1V@8mA
Insertion Loss			-1.0	dB	1-100MHz
Return Loss	-18			dB	1-10MHz
	-16				10-30MHz
	-14				30-60MHz
	-12				60-80MHz
	-10				80-100MHz
Cross Talk	-40			dB	1-30MHz
	-35				30-60MHz
	-30				60-100MHz
CMR	-35			dB	1-100MHz
Hi-Pot	1500Vrms/1mA/1Sec				Pri to Sec

MECHANICAL DIMENSIONS



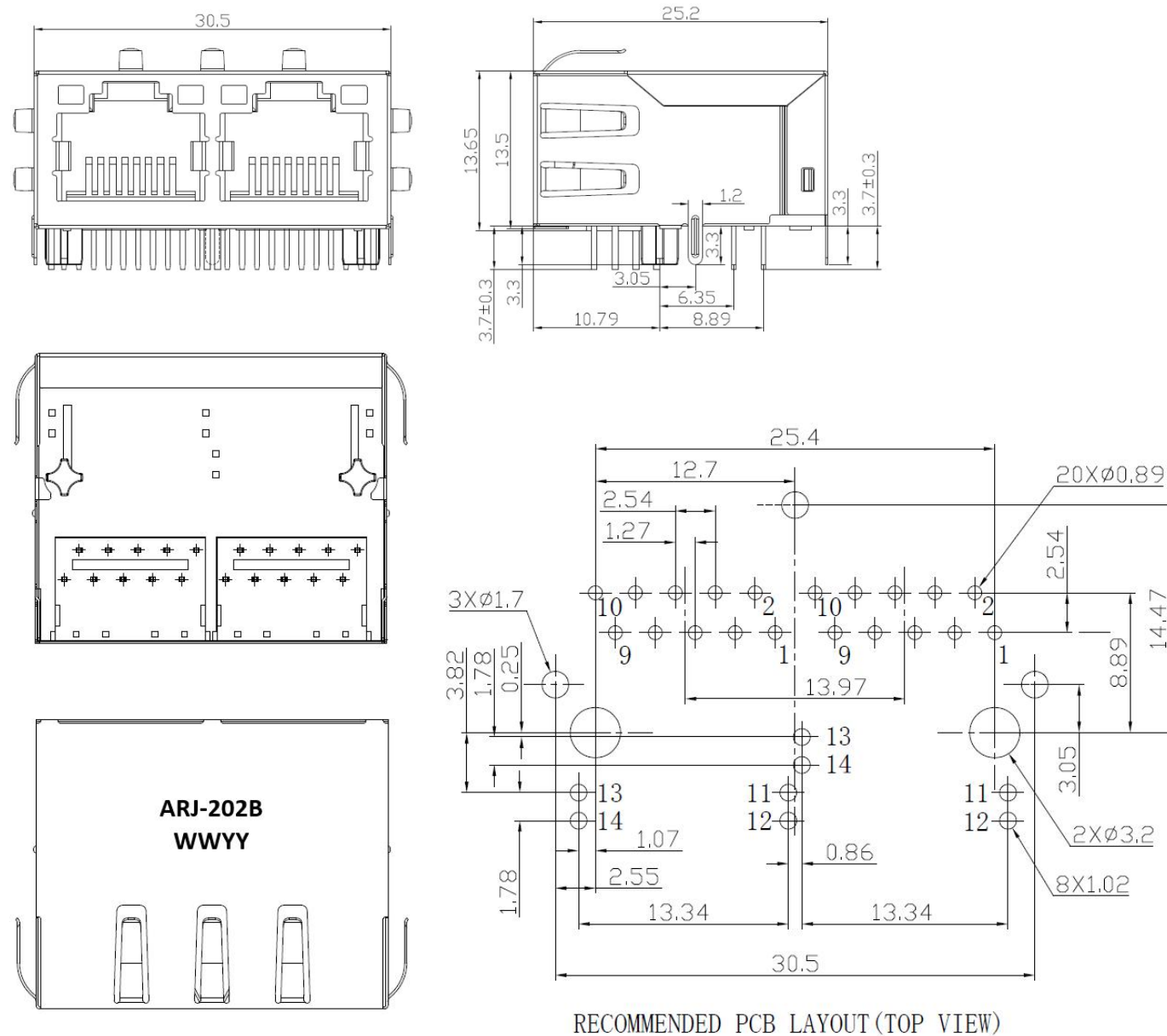
Technical drawing of a mechanical part showing dimensions and hole locations. The drawing includes the following dimensions and features:

- Overall width: 30.99
- Overall height: 14.47
- Top horizontal dimensions: 12.7, 12.7
- Left vertical dimensions: 3.05, 2.54, 8.89
- Right vertical dimensions: 3.82, 1.76, 1.78
- Bottom horizontal dimensions: 13.34, 25.4, 13.34
- Central horizontal dimension: 13.97
- Central vertical dimension: 0.86
- Hole locations: 11, 12, 13, 14
- Top hole locations: 28-Ø0.9, 3-Ø1.57, 2-Ø3.2
- Central hole locations: P1, P1

Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40				+85
Storage Temperature	-40				+85
Turn Ratio (±5%)	1CT:1CT			Turn Ratio	TX & RX
Inductance	350			uH	100kHz, 0.1Vrms
Insertion Loss			-1.2		1-100MHz
Return Loss	-16.0			dB	1-30MHz
	-12.0				30-60MHz
	-10.0				60-80MHz
	-8.0				80-100MHz
Crosstalk	-30.0			dB	1-100MHz
Hipot	1500 Vrms min				Pri to Sec
Operating Temperature	-40		85	°C	See options

Mechanical Specifications



Dimensions: mm

Measurements with X.X format have tolerances of $\pm 0.30\%$.

Measurements with X.XX format have tolerances of $\pm 0.25\%$.

Cause/Reason for Change: Updating datasheet to new template and moving to production line with higher capacity.		
Change Plan		
Effective Date: 4/16/2026	Additional Remarks:	
Change Declaration: Mechanical changes to package are minimal, but should be reviewed carefully.		
Issued Date: 4/16/2026	Issued By: <i>Gerald Capwell</i>	Issued Department: Engineering
Approval: <i>Gerald Capwell</i> Director, Engineering	Approval: <i>Reuben Quintanilla</i> Quality Director	Approval: <i>Ying Huang</i> Purchasing Director
For Abracon EOL only		
Last Time Buy (if applicable):		Alternate Part Number / Part Series:
Additional Approval:	Additional Approval:	Additional Approval:
Customer Approval (If Applicable)		
Qualification Status: ☒ Approved ☐ Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>		
Customer Part Number:		Customer Project:
Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		