



DATA SHEET

RJ-Connector

Serie: T91A22009 -

**2x1Port / Shielded with
Transformer**

Serie No.: **T91A22009 -**

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	14.05.2025	Customer:
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 5	

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Technical Description

Electrical

Current Rating:	1,5A
Voltage Rating:	125VAC
Insulation Resistance:	1000M Ω min.
Contact Resistance:	30m Ω max.
Withstanding Voltage:	AC 1000V RMS50/60Hz 1min.
Shield:	YES

Mechanical

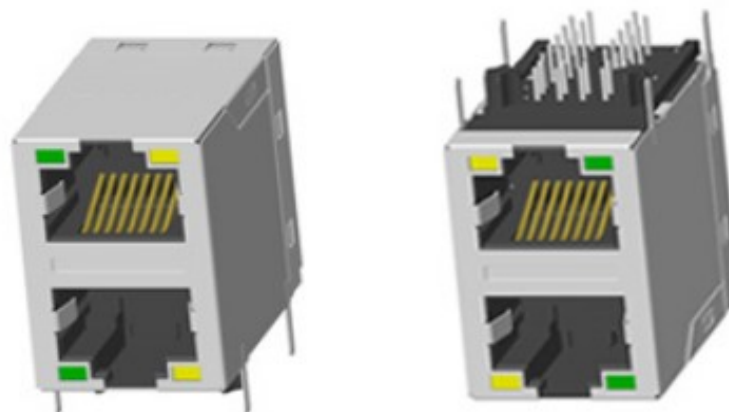
Insertion Force:	2,2KG F. max.
Retention Strength:	7,7Kg F min between jack a.plug
Durability:	600mating cycles min.
Ports:	2x1

Material

Housing:	ABS Resin (UL94V-0) PBT (UL94V-0 / PA66 UL94V-0 PA46 UL94V-0 Diameter 0,45mm
Contact Wire	Phosphor Bronze Gold Plating over Nickel 0,35mm thickness
Shield	0,20 ~ 0,25mm thickness Brass with tin plated
Contact Plating	Look order Code
Operating Temperature:	.-0°C ~ +85°C / -40°C~+85°C

Meets IEEE802.3 specification

350um Minimum OCL with 8mA bias current



					Tolerances unless otherwise specified (mm)					2x1Port / Shielded with Transformer
					X	X.X	X.XX	X.XXX	Angle	
					±	±	±	±	±3°	
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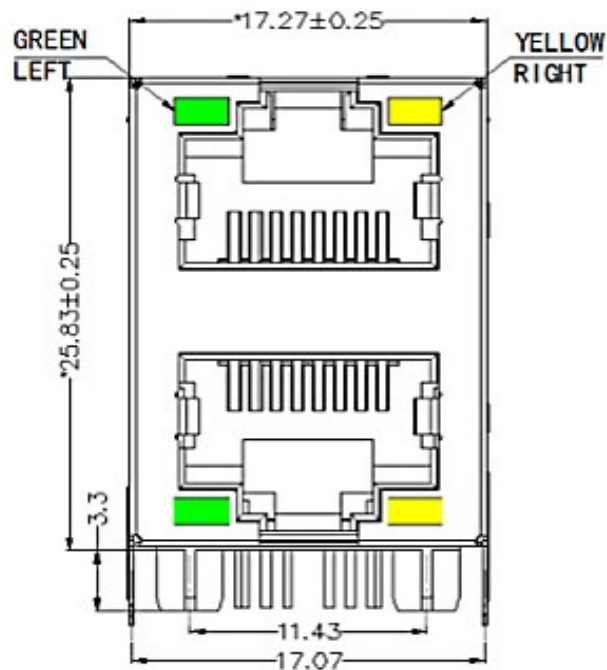
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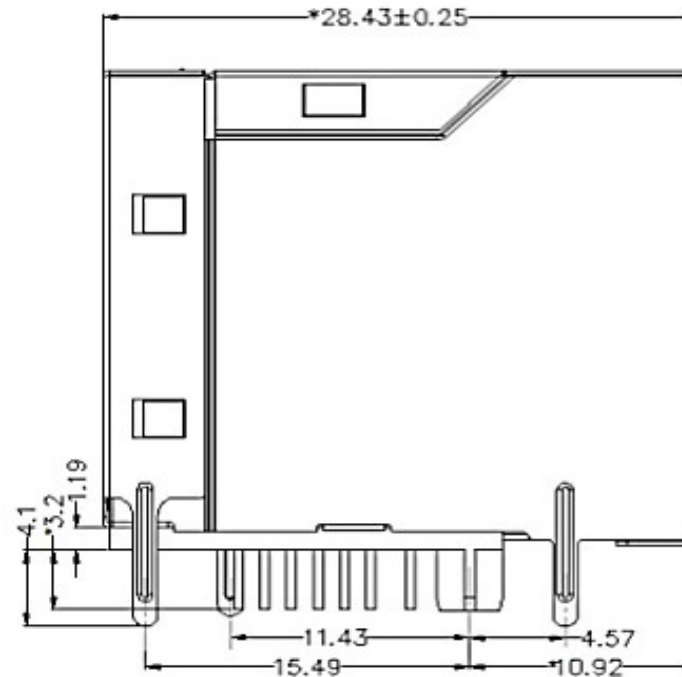
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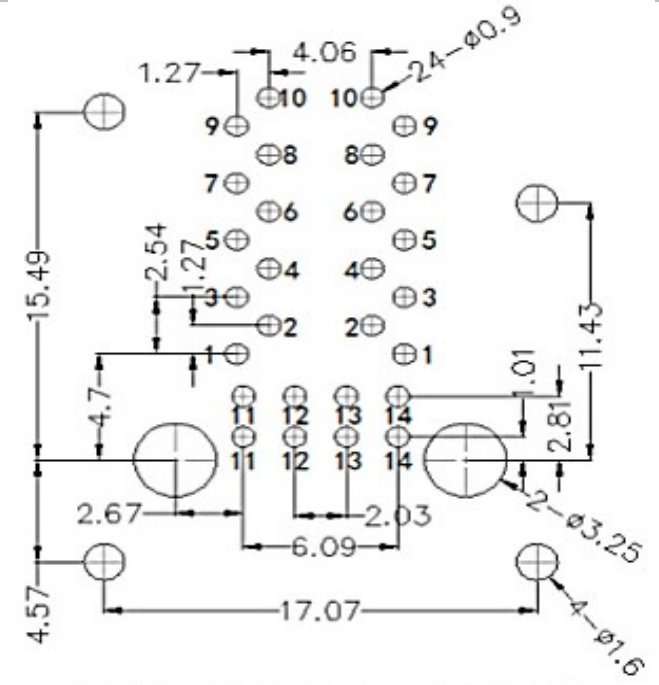
Technical Drawing



Front View



Left Side View



PCB-View from Component Side

2x1Port / Shielded with Transformer

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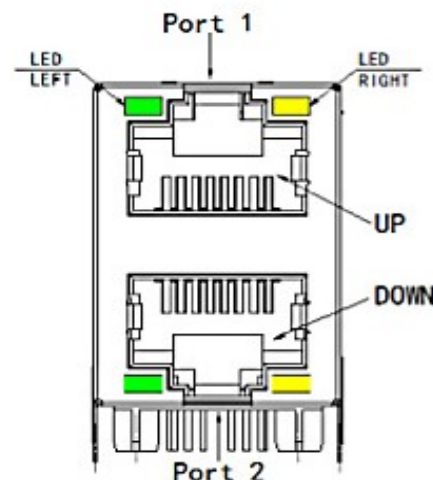
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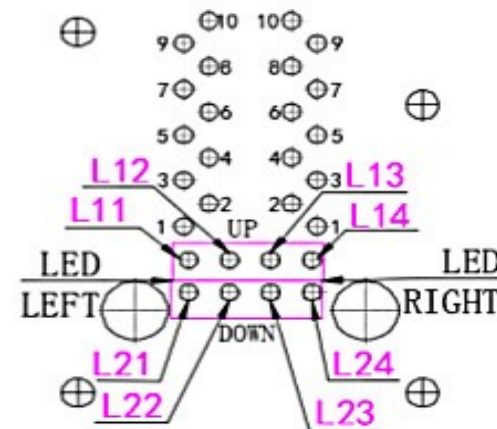
CODE	LED-LEFT				LED-RIGHT				LED-LEFT				LED-RIGHT			
	Color	Polarities		Color	Polarities		Color	Polarities		Color	Polarities		Color	Polarities		Color
		L11	L12		L13	L14		L21	L22		L23	L24		L23	L24	
A1	Y	+	-	G	-	+	Y	+	-	G	-	+	G	-	+	Y
A2	G	+	-	Y	-	+	G	+	-	Y	-	+	G	+	-	Y
B1	Y	+	-	G	+	-	Y	+	-	G	+	-	G	+	-	Y
B2	G	+	-	Y	+	-	G	+	-	Y	+	-	G	+	-	Y
C1	Y	-	+	G	-	+	Y	-	+	G	-	+	G	-	+	Y
C2	G	-	+	Y	-	+	G	-	+	Y	-	+	G	-	+	Y

Notes: Y:Yellow; G:Green

LED-Configuration Code

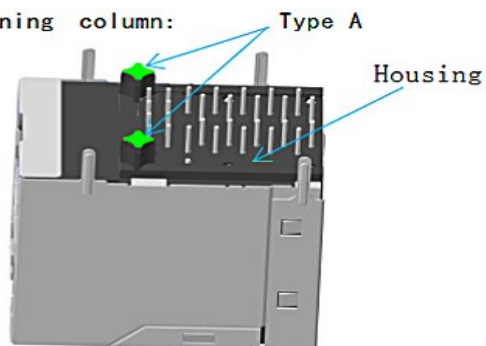


Front View



PCB View from Component Side

Plastic positioning column:



CODE	Type	Housing	
		Material	Color
A1	A	PBT	Black
A2	A	PA66	Black

Material Code Specification

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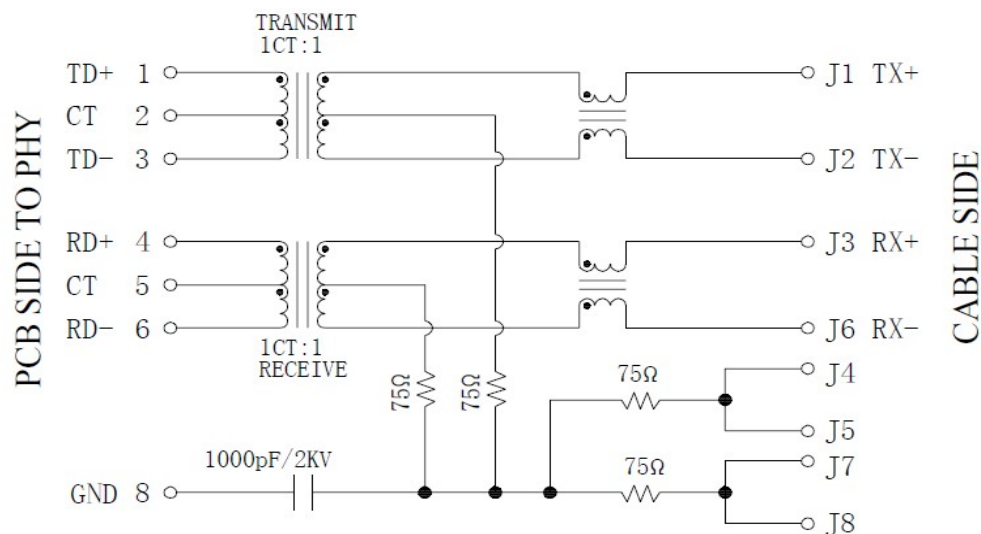


Contact



Electrical Circuit Diagramm Type B083

Electrical



1. Turn ratio: 1~3: J1~J2=1CT:1CT(±2%).
4~6: J3~J6=1CT:1CT(±2%).
2. OCL: 350uH Min. at 100KHz 100mV 8mA DC.
3. Insertion Loss: -1.2 dB Max 1~100MHz.
4. Return loss: -16dB Min 1~30MHz;
-12dB Min 30~60MHz.
-10dB Min 60~80MHz.
5. Cross talk: -30dB Min 1~100MHz;
6. CMR: -30dB Min 1~100MHz;
7. Hi-Pot: 1500V AC & 2250V DC
6S 1mA PRI TO SEC

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Contact



Ordering Informations

Serie	No of Positions	No of Contacts	Contact Plating	LED Configuration	Speical function	Material Code	ROHS	Packing Code		
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T91A22009 -	08	08	GF	C2	N	A1	R	TY		
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08= Positions	08= Contacts	GF= Gold Flash (Standard)	C2= Type C2	N= No special function	A1= Standard PBT	R= RoHS Conform	TY= Tray Pack
					A2= Standard PA66	N= NON RoHS Conform	
		GB= 6µ inch Gold					
		GC= 15µ inch Gold					
		GD= 30µ inch Gold					
		GE= 50µ inch Gold					

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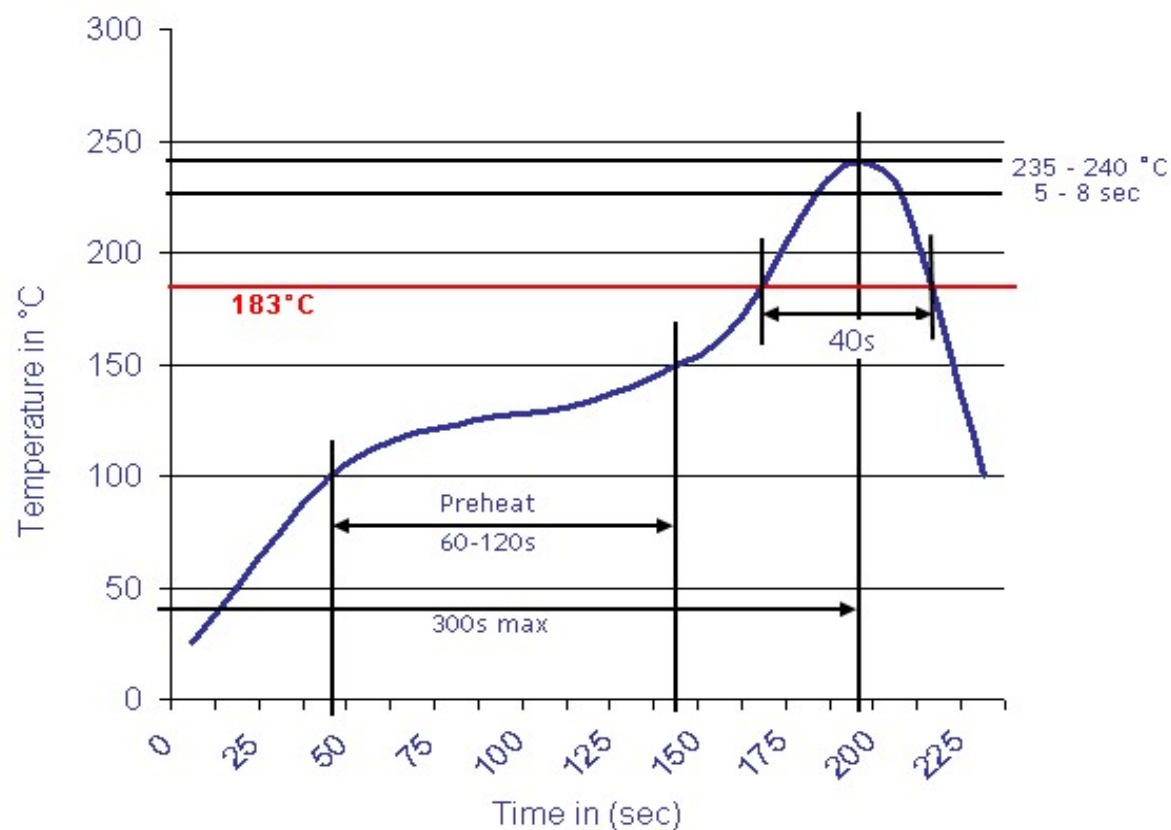


Contact



Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)


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