

**OMNIMATE-data - RJ45-uttag
RJ45C5 R1D 3.3E4N RL****Weidmüller Interface GmbH & Co. KG**

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Germany

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www.weidmueller.com



Produktsortimentet omfattar följande designtyper:

- 90°, liggande (horisontell) och 180°, stående (vertikal)
- spärr upp/spärr ned
- Lödningsprocess THT, THR eller SMD
- Brett utbud av olika designtyper, även med inbyggda lysdioder och skärmade kontaktflikar
- Effektkategori kat. 3 till kat. 6
- Förpackad antingen på bricka (TY) eller antistatiskt på tape-on-reel (RL)

Egenskaper och fördelar:

- Utökat temperaturområde på -40 °C till +85 °C för maximal prestandakapacitet
- Förstärkt guldager (30 µm) för förbättrat korrosionsskydd
- Minst 3 mm fritt utrymme garanterar ett perfekt lödresultat

Allmänna beställningsdata

Typ	RJ45C5 R1D 3.3E4N RL
Art.nr.	2562910000
Artikelbeteckning	Kretskortsstickanslutning, RJ45-uttag, Cat. 5 , THT/THR lödanslutning, 90°, Spärralternativ: nedre, Skärmflikar: 6 tabs, 30-80 µm Ni / 30- µm Au , LED: Nej, Antal poler: 8, Tape
GTIN (EAN)	4050118571936
Frp	200 Stück
Förpackning	Tape

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Tekniska data**Mått och vikter**

Bredd	15,7 mm	Byggbredd (tum)	0,618 inch
Höjd	17,06 mm	Bygghöjd (tum)	0,672 inch
Höjd lägstbyggande	13,76 mm	Djup	21,3 mm
Byggdjup (tum)	0,839 inch	Nettovikt	10 g

Temperaturer

Drifttemperatur, max	85 °C	Drifttemperatur, min.	-40 °C
Lagertemperatur, max.	85 °C	Lagertemperatur, min.	-40 °C

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Systemparametrar

Anslutningstyp	Hylsa	Anslutningsvinkel	90°
Antal lödstift per pol	1	Antal poler	8
Avskärmning	Ja	Delning i mm (P)	1,27 mm
Delning i tum (P)	0,05 inch	Diameter bestyckningshål (D)	0,9 mm
Kategori	Cat. 5	Koppling	8-trådig
Lödstiftlängd (l)	3,3 mm	LED	Nej
Montering på kretskortet	THT/THR lödanslutning	Produktfamilj	OMNIMATE-data - RJ45-uttag
Skärmmaterial	Mässing	Skyddsklass	IP20
Skärmarea	förnicklad	Skärmflikar	6 tabs
Spärralternativ	nedre	Stickcykler	750
Tolerans diameter bestyckningshål (D)	± 0,1 mm	Tolerans för stiftlängd	+0,5 / -0,5 mm

Elektriska egenskaper

Isolationshållfasthet	1000 MΩ at 500 V DC	Märkström	1,5 A
Märkspänning	125 V AC	Spänningstålighet kontakt/kontakt	1000 V AC

Packaging

Förpackning	Tape	VPE-längd	0 m
VPE-bredd	0 m	VPE-höjd	0 m
Tape reel diameter Ø (A)	330 mm	Surface resistance	Rs = 10 ⁹ - 10 ¹² Ω

Materialdata

Isoleringsmaterial	PA 9T	Färgkod	svart
Färgtabell (jämförbar)	RAL 9011	Isoleringsmaterialgrupp	II
CTI	≥ 500	Isolationshållfasthet	1000 MΩ at 500 V DC
Moisture Level (MSL)	1	Brännbarhetsklass enligt UL 94	V-0
Kontaktgrundmaterial	Fosforbrons	Kontaktyta	Guld över nickel
Skiktstruktur för stiftkontakten	30-80 μ" Ni / 30- μ" Au	Lagertemperatur, min.	-40 °C
Lagertemperatur, max.	85 °C	Drifttemperatur, min.	-40 °C
Drifttemperatur, max	85 °C		

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Tekniska data**Klassificeringar**

ETIM 6.0	EC002637	eClass 6.2	27-25-05-04
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02

Godkännanden

Godkännanden



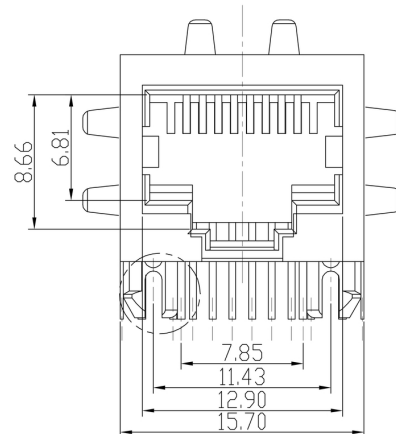
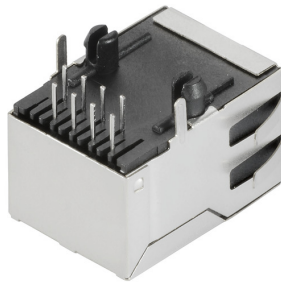
ROHS	Uppfyllelse
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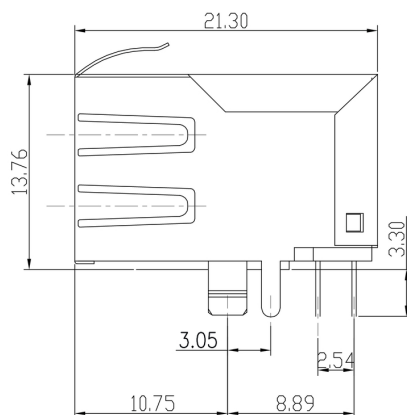
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Ritningar

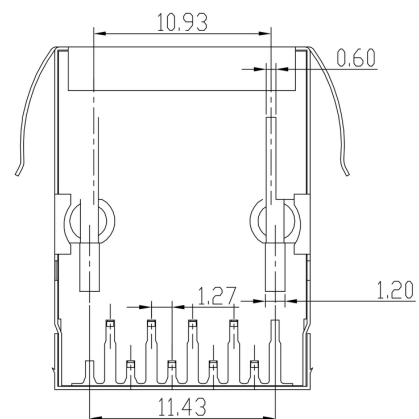
Profilritning



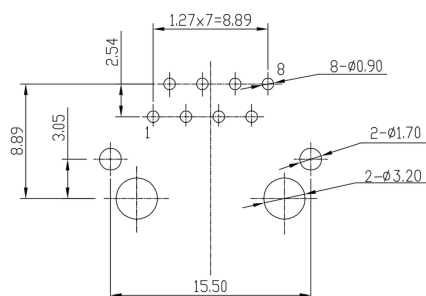
Profilritning



Profilritning



Kretskortsdesign



PCB LAYOUT

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Ritningar

Produktfördel



Process-optimised packaging
Tape-on-reel or tray

Produktfördel

Produktfördel



Trouble-free assembly
Short, chamfered solder pins



Suitable for all soldering processes
SMT, THT or THR

Skapandedatum den 8 juli 2019 14:04:40 CEST

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Ritningar

Legend

RJ45	G1	R1	U1	U2	E4	GY/GY	TY	RJ45G1 R1U 3.2E4GY/GY TY	
							Packaging	TY RL	Ty in box (manual assembly) Tape on Reel (automated assembly)
							LED	Y/G G/Y GY/GY O/G R/O ... N	Yellow/Green Green/Yellow (standard) Green-Yellow/Green-Yellow Orange-Green Red/Orange ... (further combinations possible) without LED
							Contact surface thickness	4	1 = 3µ", 2 = 6µ", 3 = 15µ", 4 = 30µ", 5 = 50µ"
							EMI tabs (ground fingers)	N	E = with EMI tabs N = without EMI tabs
							Solder Pin length	3.2 1.6 D	3.2 mm 1.6 mm SMD
							Direction, latch style	U D V Y	Horizontal (90°, side entry), latch up Horizontal (90°, side entry), latch down Vertical (180°, top entry) Diagonal (45°), latch up
							Number of Ports	1 12; 14; ... 21; 41; ...	1 Port multi ports side by side, Multiport multi ports about each other, Multilevel
							Assembly on PCB	R S T	Through Hole Reflow - THR Soldering process: Wave or Reflow soldering Surface Mount Technology - SMT Soldering process: Reflow soldering Through Hole Technology - THT Soldering process: Wave
							Performance Category	C5 C6 C6A C5e M G1 G10 U MP MP+	Category 5 Category 6 Category 6A Category 5e 10/100 Mbit 10/100/1000 Mbit 10 Gbit Unshielded 10/100 Mbit with POE 10/100 Mbit with POE+

Recommended wave soldering profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.

Recommended reflow soldering profile

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Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3\text{K/s}$. In parallel the solder paste is 'activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at $\geq -6\text{K/s}$ solder is cured. Board and components cool down while avoiding cold cracks.