

**OMNIMATE-data - RJ45-uttag
RJ45C5 R1U 2.8E4N RL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

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 R1U 2.8E4N RL
Art.nr.	2562930000
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)	4050118571950
Frp	200 Stück
Förpackning	Tape

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Tekniska data**Mått och vikter**

Bredd	16,41 mm	Byggbredd (tum)	0,646 inch
Höjd	15,86 mm	Bygghöjd (tum)	0,624 inch
Höjd lägstbyggande	13,11 mm	Djup	15,71 mm
Byggdjup (tum)	0,619 inch	Nettovikt	8,59 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)	2,75 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	+0,2 / -0,2 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	Kontakttyta	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

Downloads

Teknikuppgifter Data [STEP](#)

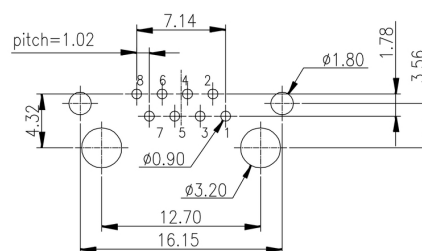
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Ritningar



Kretskortsdesign



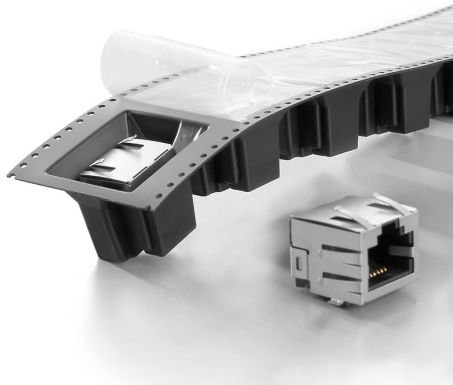
PCB LAYOUT

OMNIMATE-data - RJ45-uttag RJ45C5 R1U 2.8E4N RL

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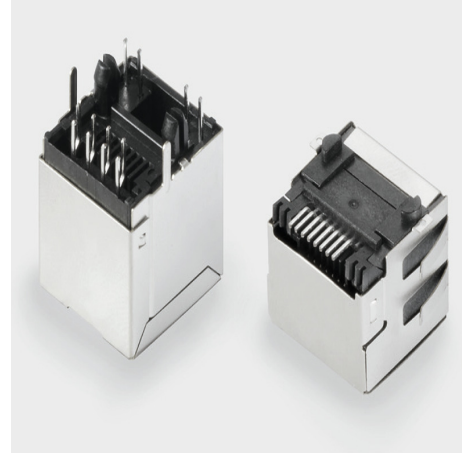
Produktfördel



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

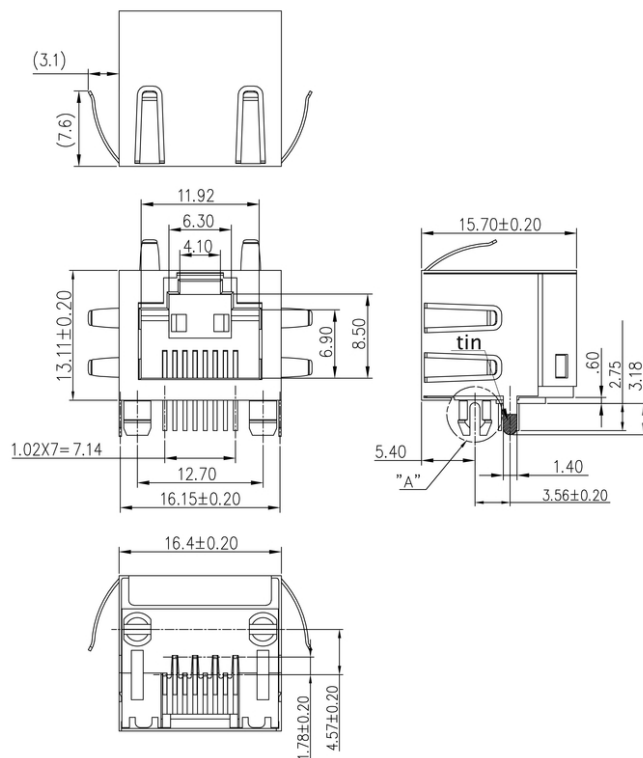
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Ritningar



Legend

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

Recommended wave soldering profiles

Weidmüller Interface GmbH & Co. KG
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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.