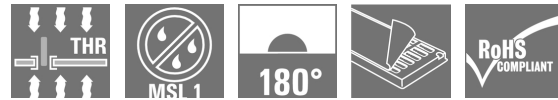


OMNIMATE-data - RJ45-uttag omvandlare RJ45M R1V 1.9N4YG/YG TY

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RJ45-sändarhylsor (magnetiska) för gigabit-ändamål (1000 base-T) med integrerad kompensering motverkar aktivt induktiva och kapacitiva kopplingar och gör att utrymme kan sparas på kretskortet.

- Lödningsprocess THT eller THR
- Brett utbud av olika designtyper, även med inbyggda lysdioder och skärmade kontaktflikar
- Förpackad antingen på bricka (TY) eller antistatiskt på tape-on-reel (RL)
- Utvidgat temperaturområde, -40 °C till +85 °C
- Förstärkt guldager för förbättrat korrosionsskydd
- Överföringshastighet upp till 1 Gbit/sek

Allmänna beställningsdata

Typ	RJ45M R1V 1.9N4YG/YG TY
Art.nr.	2562140000
Artikelbeteckning	Kretskortsstickanslutning, RJ45-uttag omvandlare, 10/100 MBit/s , THT/THR lödanslutning, 180°, Skärmflikar: ingen, 30-80 µ" Ni / 30- µ" Au , LED: Ja, grön/gul, Antal poler: 8, Bricka (manuell montering)
GTIN (EAN)	4050118570588
Frp	120 Stück
Förpackning	Bricka (manuell montering)

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Tekniska data**Mått och vikter**

Bredd	16 mm	Byggbredd (tum)	0,63 inch
Höjd	18,9 mm	Bygghöjd (tum)	0,744 inch
Höjd lägstbyggande	17 mm	Djup	16,8 mm
Byggdjup (tum)	0,661 inch	Nettovikt	7 g

Temperaturer

Driftstemperatur, max	85 °C	Driftstemperatur, 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	180°
Antal lödstift per pol	1	Antal poler	8
Avskärmning	Ja	Delning i mm (P)	1,27 mm
Delning i tum (P)	0,05 inch	Färg på vänster LED	grön/gul
LED	Ja	Montering på kretskortet	THT/THR lödanslutning
Produktfamilj	OMNIMATE-data - RJ45-uttag omvandlare	Skärmmaterial	Mässing
Skyddsklass	IP20	Skärmarea	förnicklad
Skärmflikar	ingen	Stickcykler	750
Överföringshastighet	10/100 MBit/s		

Elektriska egenskaper

Isoleringshållfasthet	> 500 MΩ	Märkström	1,5 A
Märkspänning	125 V AC	Spänningstålighet kontakt/kontakt	1000 V DC
Spänningstålighet kontakt/skärm	1 500 V DC		

Packaging

Förpackning	Bricka (manuell montering)	VPE-längd	0,32 m
VPE-bredd	0,19 m	VPE-höjd	0,065 m

Materialdata

Isoleringsmaterial	PA 9T	Färgkod	svart
Färgtabell (jämförbar)	RAL 9011	Isoleringsmaterialgrupp	II
CTI	≥ 500	Isoleringshållfasthet	> 500 MΩ
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	Driftstemperatur, min.	-40 °C
Driftstemperatur, max	85 °C		

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

Datablad

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Tekniska data

Godkännanden

Godkännanden



ROHS

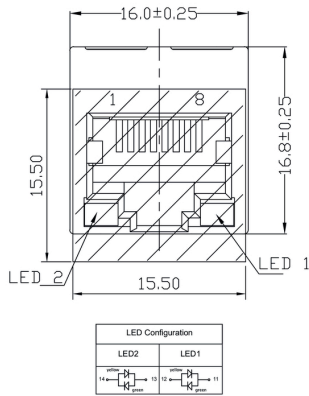
Uppfyllelse

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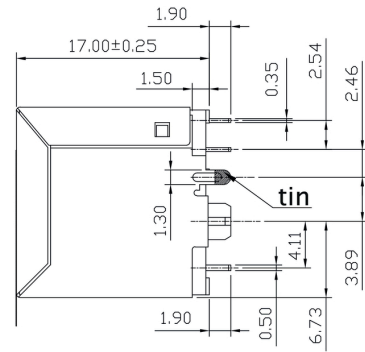
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Ritningar

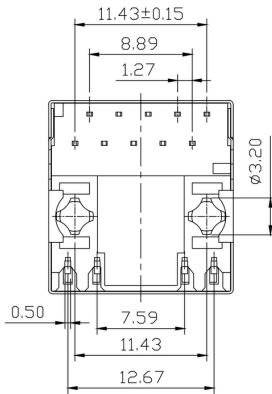
Profilritning



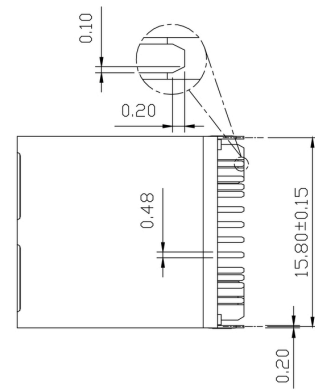
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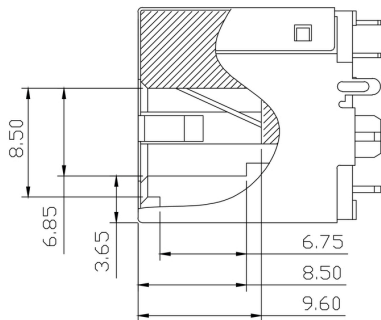
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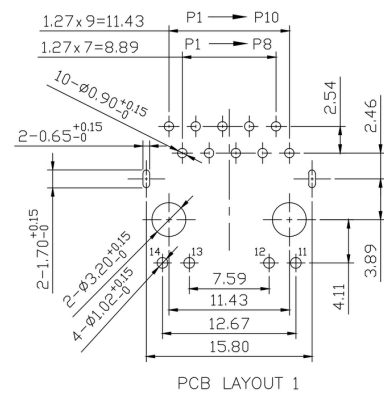
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Profilritning



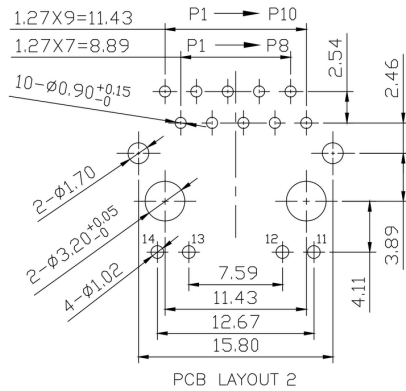
Kretskortsdesign



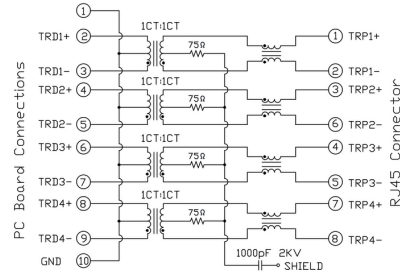
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Kretskortsdesign



Kopplingsbild



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Ritningar

Schematic

Characteristics

Inductance	350 µH min. @ 100 kHz, 100 mV, 8 mA DC Bias
Leakage Inductance	0.3 µH max. @ 100 kHz, 100 mV
Insertion Loss	1.1 dB max. @ (1 - 100) MHz
Return Loss	18 dB min. @ (1 - 30) MHz 16 dB min. @ (30 - 60) MHz 12 dB min. @ (60 - 80) MHz
Cross Talk	30 dB min. @ (1 - 100) MHz
Common Mode Rejection	30 dB min. @ (1 - 100) MHz

Type codes

Code	Description	Options
RJ45	Product family	
G1	Performance Category	C5, C6, C6A, C5e, M, G1, G10, U, MP, MP+
R	Assembly on PCB	R, S, T
U	Direction, latch style	U, D, V, Y
3.2	Solder Pin length	3.2, 1.6, D
E	EMI tabs (ground fingers)	E, N
4	Contact surface thickness	4
GY/GY	LED	Y/G, G/Y, GY/GY, O/G, R/O, ...
TY	Packaging	TY, RL

Code	Description	Options
TY	Packaging	TY: Tray in box (manual assembly) RL: Tape on Reel (automated assembly)
Y/G	LED	Yellow/Green
G/Y	LED	Green/Yellow (standard)
GY/GY	LED	Green-Yellow/Green-Yellow
O/G	LED	Orange/Green
R/O	LED	Red/Orange
...	LED	... (further combinations possible)
N	LED	without LED
4	Contact surface thickness	1 = 3µ", 2 = 6µ", 3 = 15µ", 4 = 30µ", 5 = 50µ"
E	EMI tabs (ground fingers)	E = with EMI tabs N = without EMI tabs
3.2	Solder Pin length	3.2 mm 1.6 mm D: SMD
U	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
1	Number of Ports	1 Port 12; 14; ... multi ports side by side, Multiport 21; 41; ... multi ports about each other, Multilevel
R	Assembly on PCB	R: Through Hole Reflow - THR S: Surface Mount Technology - SMT T: Through Hole Technology - THT
C5	Performance Category	Category 5
C6	Performance Category	Category 6
C6A	Performance Category	Category 6A
C5e	Performance Category	Category 5e
M	Performance Category	10/100 Mbit
G1	Performance Category	10/100/1000 Mbit
G10	Performance Category	10 Gbit
U	Performance Category	Unshielded
MP	Performance Category	10/100 Mbit with POE
MP+	Performance Category	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.

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.