

## RJ45G1 R1V 3.3N4YG/YG TY

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

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Germany

www.weidmueller.com



RJ45 transmitter sockets (magnetics) for gigabit applications (1000 base-T) with integrated compensation actively counteracts inductive and capacitive couplings and saves space on the PCB.

The product range encompasses the following designs:

- 90°, lying (horizontal) and 180°, standing (vertical)
- latch up / latch down
- THT, THR or SMD soldering processes
- Wide range of different design types, also with integrated LEDs and shield contact tabs
- Transmission rates of up to 1 Gbps
- Packed either in a tray (TY) or on a roll (tape-on-reel, RL)
- Compatible with modular RJ45 connector according to ANSI / TIA-1096-A and IEC 60603
- Dielectric strength  $\geq 1500$  V AC RMS (2250 V AC peak value) according to IEEE 802.3
- Dielectric strength  $\geq 1500$  V AC (peak value) or  $\geq 1500$  V DC according to IEC 60603
- Compliance with IEEE 802.3 requirements (1000Base-T, 1 Gbps, IEEE 802.3ab or 100Base-Tx, 100 Mbps, IEEE 802.3u) Properties and advantages:
- Extended temperature range of  $-40$  °C to  $+85$  °C for maximum performance
- Reinforced gold layer ( $30\mu\text{m}$ ) for improved corrosion protection
- At least 0.3mm stand-off ensures a perfect soldering result

### General ordering data

Version	OMNIMATE Data - RJ45 transformer jack, PCB plug-in connector, THT/THR solder connection, 180°, none, Yes, Plugging cycles: 750, Number of poles: 10, PA 9T, 30...80 $\mu\text{m}$ Ni / $\geq 30$ $\mu\text{m}$ Au , Tray (manual assembly)
Order No.	<a href="#">1534760000</a>
Type	RJ45G1 R1V 3.3N4YG/YG TY
GTIN (EAN)	4050118338423
Qty.	120 items
Packaging	Tray (manual assembly)

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## Technical data

## Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E471884

## Dimensions and weights

Depth	16.8 mm	Depth (inches)	0.6614 inch
Height	20.3 mm	Height (inches)	0.7992 inch
Height of lowest version	17 mm	Width	16 mm
Width (inches)	0.6299 inch	Net weight	3.78 g

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## System specifications

Number of poles	10	LED	Yes
Solder pin length (l)	3.2 mm	Mounting onto the PCB	THT/THR solder connection
Pitch in inches (P)	0.050 "	Shielding material	Brass
Shielding	Yes	Side termination, characteristic	Solder flange
Solder eyelet hole diameter tolerance (D) ± 0.1 mm		Transmission rate	1000 Mbps
Number of solder pins per pole	1	Type of connection	Solder connection
Solder eyelet hole diameter (D)	0.9 mm	Product family	OMNIMATE Data - RJ45 transformer jack
Pitch in mm (P)	1.27 mm	Protection degree	IP20
Plugging cycles	750	Wiring	10-wire
Outgoing elbow	180°	Forward current	20 mA
Forward voltage, max.	2.5 V	Shield surface	nickel-plated
Colour of right LED	Green/yellow	Shield tabs	none
Performance-Category	1000 Mbps	Soldering process	Reflow soldering, Manual soldering, Wave soldering
Solder pin dimensions	0.40 x 0.30 mm, LED pins = 0.50 x 0.50 mm	Tolerance of solder pin position	± 0.15 mm
Forward voltage, min.	1.8 V	Colour of left LED	Green/yellow

## Electrical properties

Dielectric strength, contact / shield	1500 V DC	Dielectric strength, contact / contact	1000 V DC
Insulation resistance	≥ 500 MΩ	Nominal voltage	125 V
Rated current	1.5 A		

## Standards

Connector standard	IEC 60603-7-5 1, IEC 60603-7
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## Material data

Insulating material	PA 9T	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II

Creation date 17.02.2026 02:53:51 MEZ

Catalogue status / Drawings

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### Technical data

Comparative Tracking Index (CTI)	≥ 500	Insulation resistance	≥ 500 MΩ
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact base material	Phosphorus bronze	Contact material	Cu-alloy
Contact surface	Gold over nickel	Layer structure of plug contact	30...80 μ" Ni / ≥ 30 μ" Au
Storage temperature, min.	-40 °C	Storage temperature, max.	85 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	85 °C

### Packing

Packaging	Tray (manual assembly)	VPE length	314.00 mm
VPE width	190.00 mm	VPE height	68.00 mm

### Important note

Notes

### Classifications

ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

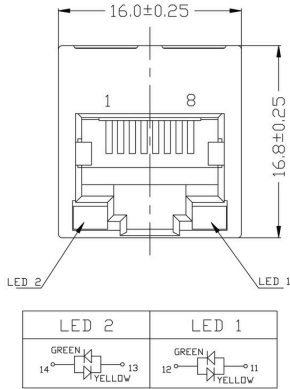
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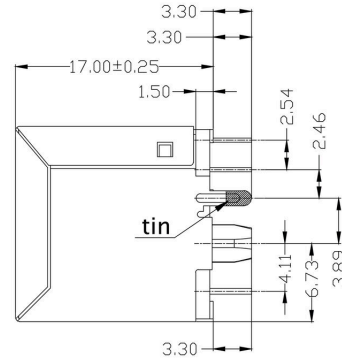
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Drawings

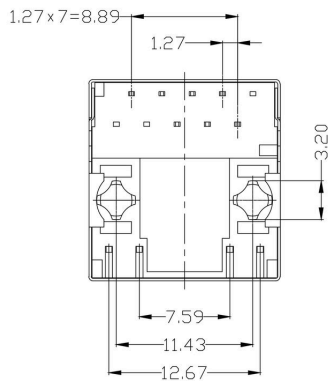
Dimensioned drawing



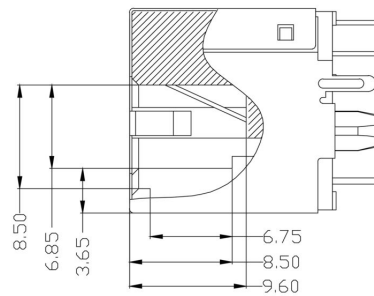
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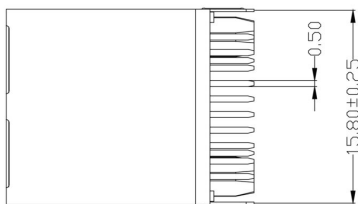
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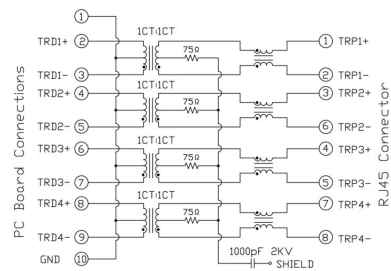
Dimensioned drawing



Dimensioned drawing



Wiring diagram



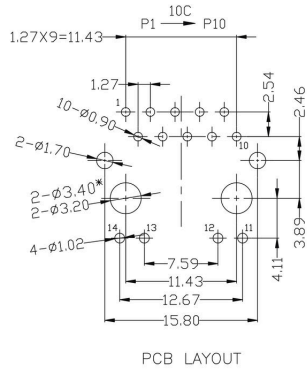
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Drawings

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PCB design



Code	Description	Value	Options
<b>RJ45</b>	Product family	RJ45G1 R1U 3.2E4GY/GY TY	
<b>G1</b>	Performance Category	C5, C6, C6A, C6e, M, G1, G10, U, MP, MP+	Category 5, Category 6, Category 6A, Category 6e, 10/100 Mbit, 10/100/1000 Mbit, 10 Gbit, Unshielded, 10/100 Mbit with POE, 10/100 Mbit with POE+
<b>R</b>	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
<b>1</b>	Number of Ports	1, 12; 14; ..., 21; 41; ...	1 Port, multi ports side by side, Multiport, multi ports about each other, Multilevel
<b>U</b>	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
<b>3.2</b>	Solder Pin length	3.2, 1.6, D	3.2 mm, 1.6 mm, SMD
<b>E</b>	EMI tabs (ground fingers)	E, N	E = with EMI tabs, N = without EMI tabs
<b>4</b>	Contact surface thickness	4	1 = 3µ", 2 = 6µ", 3 = 15µ", 4 = 30µ", 5 = 50µ"
<b>GY/GY</b>	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
<b>TY</b>	Packaging	TY, RL	Tray in box (manual assembly), Tape on Reel (automated assembly)

Type codes