

# M12 transf. 1000BASE-T x STR



Part number	21 03 381 2815
Specification	M12 transf. 1000BASE-T x STR
HARTING eCatalogue	https://b2b.harting.com/21033812815

Image is for illustration purposes only. Please refer to product description.

#### Identification

Category	Connectors
Series	Circular connectors M12
Identification	Magnetics
Element	PCB adapter
Specification	with integrated transformer Straight

#### Version

Termination method	Reflow soldering termination (SMT)
Gender	Female
Shielding	Shielded
Number of contacts	8
Coding	X-coding
Details	Order housings separately
Pack contents	60 pieces in a tray

#### **Technical characteristics**

Rated current	0.8 A
Rated voltage	57 V
Rated impulse voltage	1.5 kV
Pollution degree	3
Data rate	1 Gbit/s
Insulation resistance	>10 <sup>8</sup> Ω

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#### Technical characteristics

Contact resistance	≤10 mΩ
Ambient temperature	-40 +85 °C +245 °C for reflow soldering
Insertion force	30 N
Withdrawal force	30 N
Mating cycles	≥100
Degree of protection acc. to IEC 60529	IP65 / IP67 mated condition
Isolation group	Illa (175 ≤ CTI < 400)
Process Sensitivity Level (PSL)	R7 acc. to ECA/IPC/JEDEC J-STD-075

#### Material properties

Material (insert)	Liquid crystal polymer (LCP)
Colour (insert)	Black
Material (contacts)	Brass
Surface (contacts)	Au over Ni Mating side
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	6(c): Copper alloy containing up to 4 % lead by weight
ELV status	compliant with exemption
China RoHS	50
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Yes
REACH SVHC substances	Lead
ECHA SCIP number	0d7d3693-d625-47ab-934a-d241bf72c86e
California Proposition 65 substances	Yes
California Proposition 65 substances	Nickel Lead Naphthalene

### Specifications and approvals

Specifications	IEC 61076-2-109	
Commercial data		
Packaging size	60	

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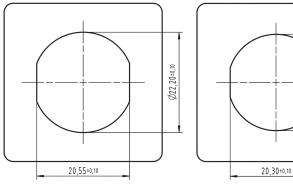


#### Commercial data

Net weight	9.8 g
Country of origin	China
European customs tariff number	85366990
eCl@ss	27460201 PCB connector (board connector)

Ø21,30±0,10

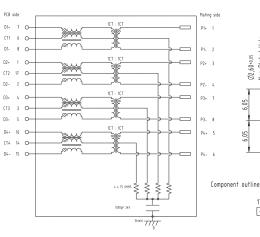
#### Panel cut out

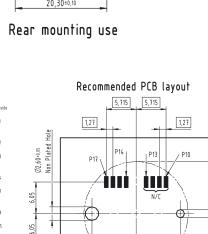


## Front mounting use

#### General information

#### Schematic





P1

5,715 8,89 16,9±0,1

# Electrical Characteristics $\textcircled{0+25}^{\circ}$ unless otherwise noted Meets IEEE802.3 specification RoHS compliant

Ø1,55±0.05 Non Plated Hole

2,54

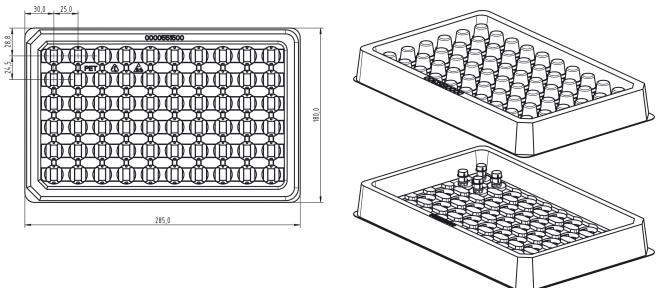
(Ø20)

	Parameter	Specification/ Limit Values
	Operating Temperature	-40°C - +85°C
	Turn Ratio (+/- 2%)	1CT : 1CT
T	OCL	min 350µH @ 100KHz , 100mV with 8mA bias current
	Isolation (Input- Output)	2.25kV VDC , for 60sec. min
		f ≤ 100MHz
	Insertion Loss	1.3 dB
	Return Loss	9 dB
	Crosstalk	30 dB
	CMRR	30 dB
	CDMR	30 dB
	NOTE: 1. f is the freqency in MHz 2. The Product has been tested for DC isolation. HARTING assumes no liability or obligation for AC isolation testing.	
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Tape layout & packaging



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