

Spezifikation für Freigabe / specification for release

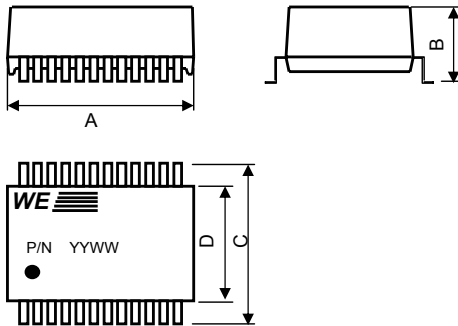
Kunde / customer :
 Artikelnummer / part number : **749020010**
 Bezeichnung : **LAN-Übertrager WE-LAN**
 description : **LAN-Transformer WE-LAN**



WÜRTH ELEKTRONIK

DATUM / DATE : 2005-12-01

A Mechanische Abmessungen / dimensions :



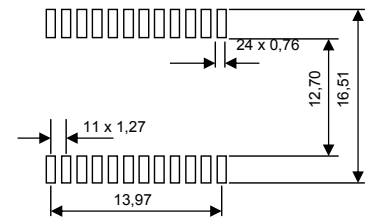
	1000 BaseT	
A	17,53 ± 0,25	mm
B	6,50 max	mm
C	16,00 ± 0,25	mm
D	12,20 ± 0,25	mm

● = Pin 1

B Elektrische Eigenschaften / electrical properties :

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Induktivität / Inductance	100kHz / 100mV @ 8mA DC Bias	OCL	350	μH	min.
Übersetzungsverhältnis / Turns ratio	100kHz / 100mV	TR	1 : 1	Tx	3%
			1 : 1	Rx	
Insertion Loss	1-100MHz	IL	-1,0	dB	max.
Return Loss	1-40MHz @ 100Ω	RL	-18	dB	min.
	50MHz @ 100Ω		-16		
	60-80MHz @ 100Ω		-12		
	100MHz @ 100Ω		-10		
Differential to Common Mode Rejection	30MHz	DCMR	-43	dB	min.
	60MHz		-37		
	100MHz		-33		
Crosstalk	60MHz	CT	-40	dB	min.
	100MHz		-35		

C Lötpad / soldering spec. :



D Prüfgeräte / test equipment :

HP4395A

E Testbedingungen / test conditions :

Luftfeuchtigkeit / humidity: 33%
 Umgebungstemperatur / temperature: +25°C

F Werkstoffe & Zulassungen / material & approvals :

Basismaterial / base material: Ferrit/ ferrite
 Draht / wire: 4UEW 155°C
 Kontaktmaterial/ contact plating: Cu-Ni-Sn
 Gehäuse / case: UL94-V0
 Verguss / potting: UL94-V0

G Eigenschaften / general specifications :

Betriebstemp. / operating temperature: 0°C - + 70°C
 Hochspannungsprüfung / Hipot test: 1500Vrms 1min.
 geeignet für 1000BaseT-Anwendungen gemäß IEEE 802.3ab /
 Compliant with IEEE 802.3ab for 1000BaseT

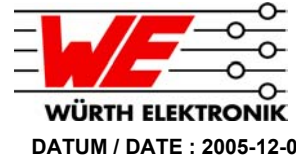
Freigabe erteilt / general release:	Kunde / customer		
.....		
Datum / date	Unterschrift / signature		
.....	Würth Elektronik		
.....	TBr	Version 3	2005-12-01
.....	TBr	Version 2	2004-11-19
.....	TBr	Version 1	2004-06-04
Geprüft / checked	Name	Änderung / modification	Datum / date
.....

Würth Elektronik eiSos GmbH & Co.KG

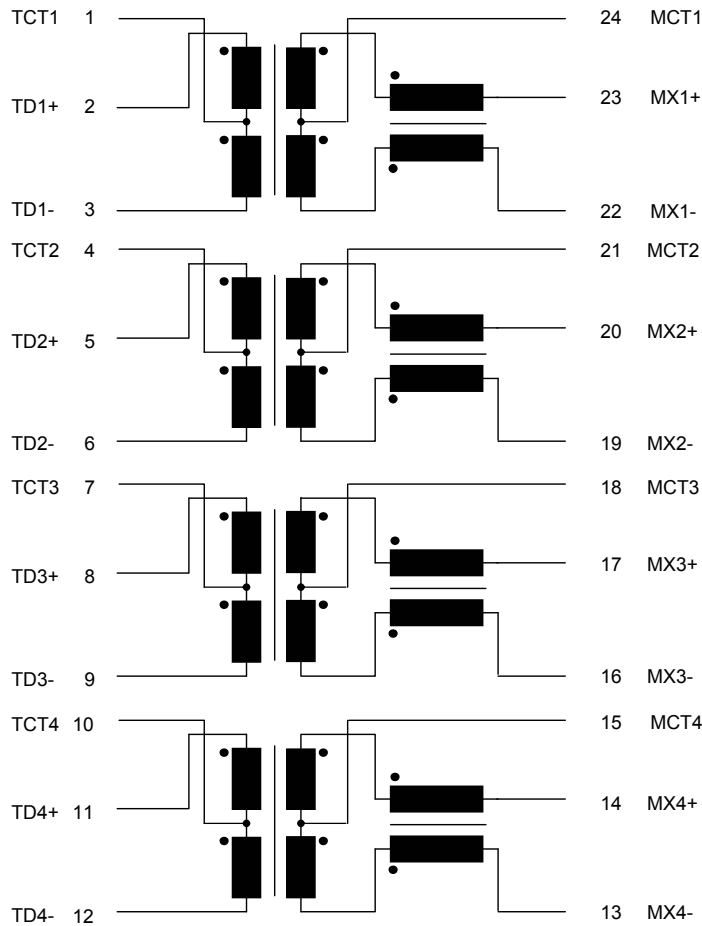
D-74638 Waldenburg · Max-Eyth-Straße 1 - 3 · Germany · Telefon (+49) (0) 7942 - 945 - 0 · Telefax (+49) (0) 7942 - 945 - 400
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H Schaltbild / Schematics :



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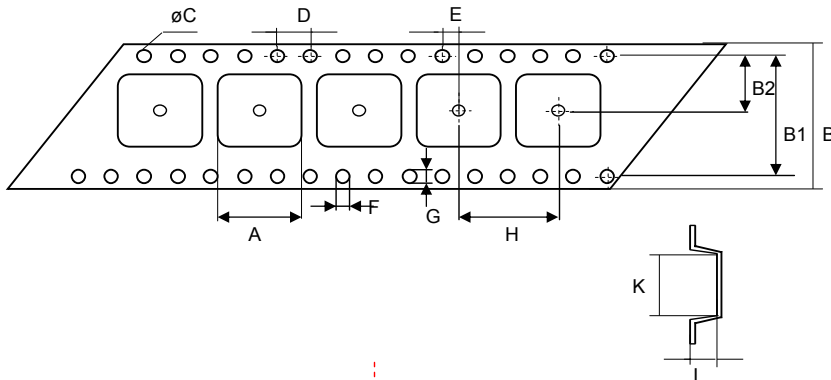
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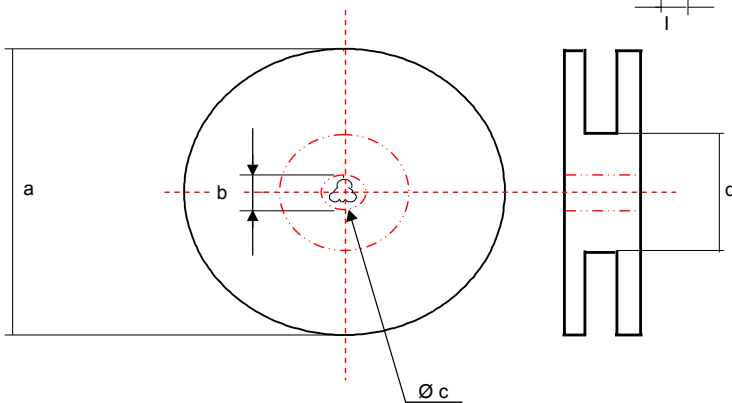
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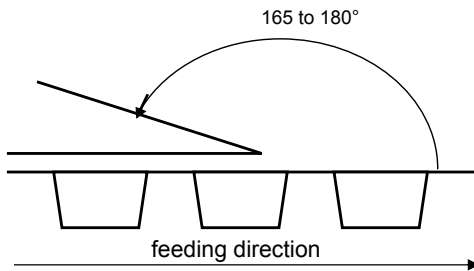
I Rollenspezifikation / tape and reel specification :



Gurtspezifikation / Tape specification:		
A	16,5 ± 0,1	mm
B	44,0 ± 0,3	mm
B1	40,4 ± 0,1	mm
B2	20,2 ± 0,1	mm
C	1,50^{+0,1}_{-0,0}	mm
D	4,00 ± 0,1	mm
E	2,00 ± 0,1	mm
F	1,50^{+0,1}_{-0,0}	mm
G	1,70^{+0,15}_{-0,05}	mm
H	24,0 ± 0,1	mm
I	6,5 ± 0,1	mm
K	18,5 ± 0,1	mm



Rollenspezifikation / Reel specification:		
a	330,0 ± 2,0	mm
b	21,00 ± 0,8	mm
c	13,50 ± 0,5	mm
d	100,0 ± 1,0	mm



The force for tearing off cover tape is 10 to 130 grams in arrow direction

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This electronic component is designed and developed with the intention for use in general electronics equipments. Before incorporating the components into any equipments in the field such as aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required or if there is possibility of direct damage or injury to human body. In addition, even electronic component in general electronic equipments, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed before use. It is essential to give consideration when to install a protective circuit at the design stage.

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