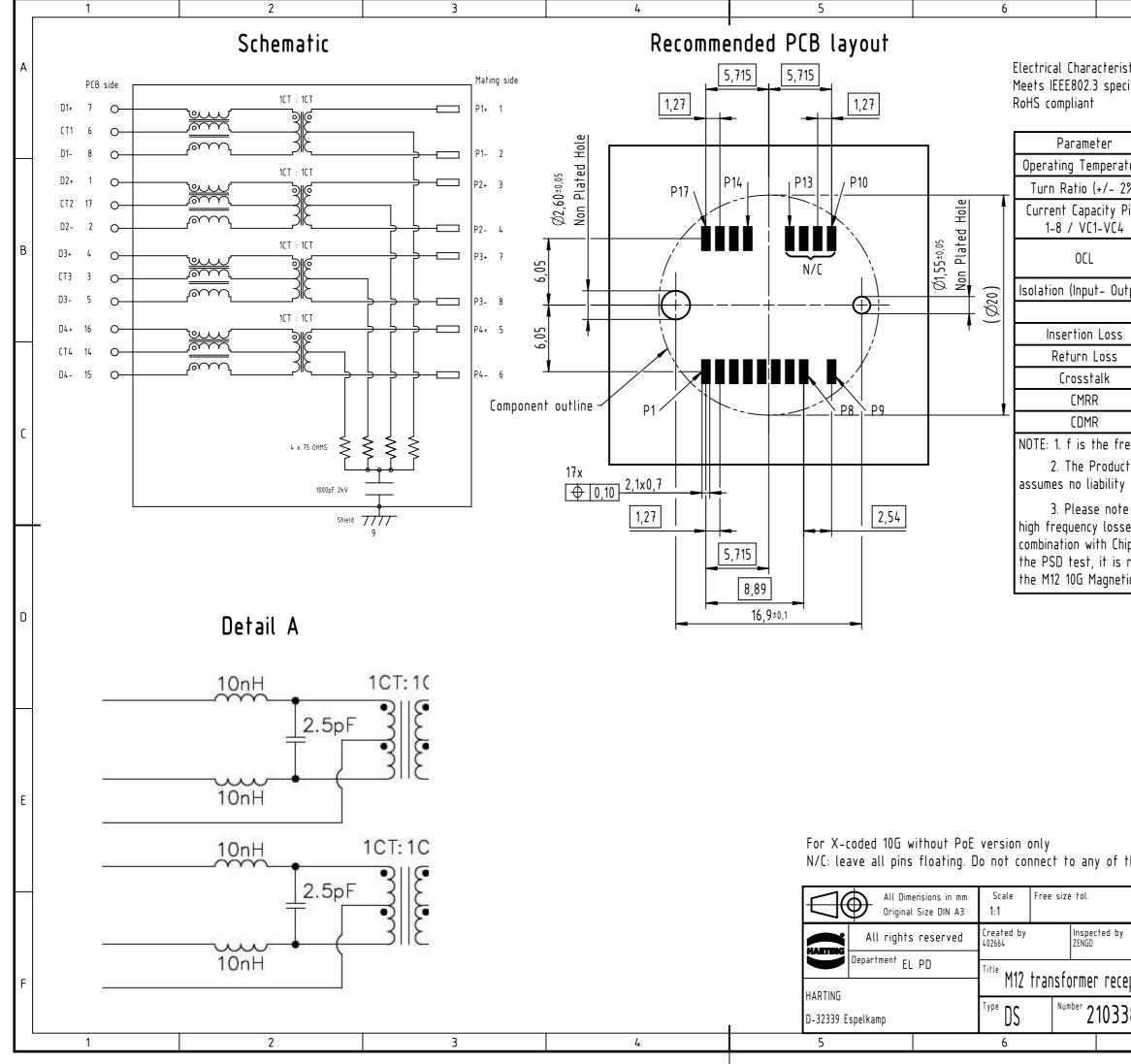
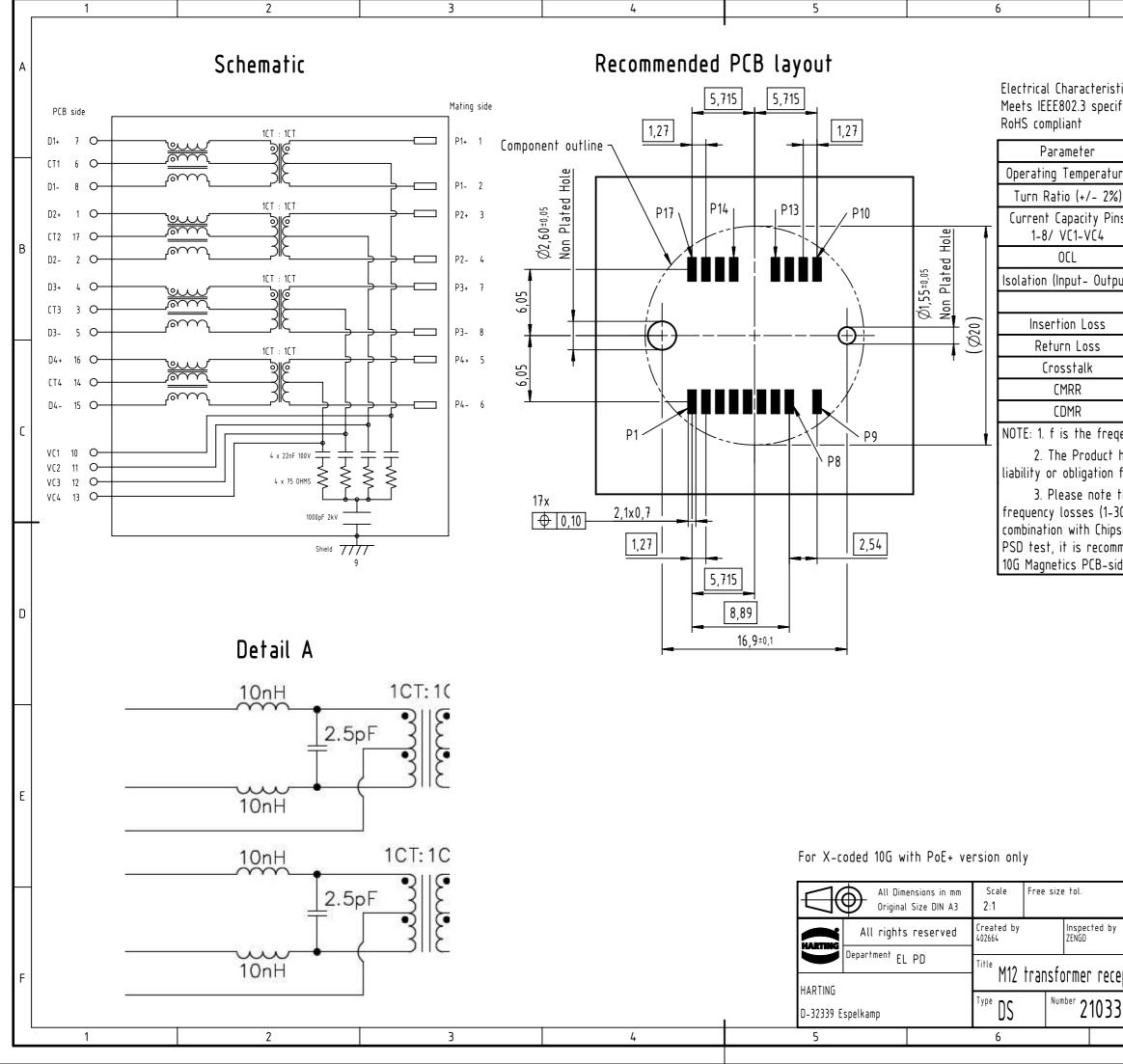
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HARTING	112 X-coded 10G trans	sformer receptacles			Recomm	nended Pane
GENERAL INFORMA	TION					
No. of contacts		8 poles				
Contact resistance	2	< 5 mOhm				
Working temperatu	ure range	-40°C - +85°C				
Termination techno	ology	SMT				↓
Reflow processing	temperature	245°C Max.				
Total insertion for	rce	30N Max. according to	IEC 61076-2-109		(0,10
Total withdrawal f	force	30N Max. according to	IEC 61076-2-109		↓	Ø22,20±0,10
Mating cycles		100 mating cycles, acc	ording to IEC 61076-2-109			Ø22
Shock and vibratio	n proof	according to IEC 61076	-2-109		N I	
RoHS – compliant		Yes			$ \rangle /$	
Lead free		Yes				
PSL level acc. ECA	A/IPC/JEDEC J-STD-075	R7				
INSULATION MATER	RIAL	•				
Material		LCP (liquid crystalline	polymer)		20,55±0,10	
Color		Black				
UL classification		UL94-V0				
Material group acc	. IEC 60664-1	a (175 ≤ CTI < 400)				
CONTACT MATERIA						
Contact material		Copper alloy				
Plating termination	n zone	Tin				
Plating contact sli	iding side	Gold				4
SHIELDING MATERI						\setminus
Shielding material		Copper alloy			(±0,10
Plating		Tin			<u>+</u> +	Ø21,30±0,10
					20,30±0,10	
					- 20,50 €,10	╼┤
_					All Dimensions in mm Scale Driginal Size DIN A3 1:1	Free size tol.
					rights reserved Created by 402664	Inspected by ZENGD
					Title M12	transformer recep
				HARTING D-32339 Espelkamp		Number 210338
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nel cut out	A			
	mounting use rawing 21033012006			
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	mounting use Irawing 21033012007			
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302077	2021-03-15 Final Release Doc-Key / ECM-Nr.			
eptacles X-coded 10G straight,SMI 100723702/UGD/001/E				
3810103	Rev. E Page 1/4			
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7 8						
istics @+25°C unless otherwise noted ecification				4	Д	
	Specificat	ion/ Limit Val				
ature)°C - +85°C		-		
2%)		1CT : 1CT				
Pins 4		750mA				
. •	min 120µH @ 100KI	Hz , 100mV wi current	th 18mA bias	E	В	
)utput)	2.25kV VC	IC , for 60sec	min			
		< f ≤ 500 MH				
s		3.1 dB				
;		5 dB				
		23 dB				
		20 dB				
		20 dB			C	
reqency in MHz oct has been tested for DC isolation. HARTING y or obligation for AC isolation testing. te that the M12 Magnetics connector generates less ses (1–3GHz) compared to an RJ45 with magnetics. In -						
hipsets that require high frequency losses to pass s recommended to add a Lowpass filtering network to etics PCB-side for 10GBASE-t signalling (see Detail A)					D	
f the p	ins to any net			E	E	
	Re	f.			_	
	Su					
Ьу	Standardisation Da 302077 20	te 21-03-15	State Final Release			
ceptacl	les X-coded 10G str		Doc-Key / ECM 100723702/UGD/0 500000191093		F	
33810	103		^{Rev.} F	Page 2/4		
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7	8					
stics @+25°C unless othe cification	rwise noted					
Snerifi	cation/ Limit Values					
	-40°C - +85°C					
%)	1CT : 1CT					
lins	750mA					
min 120uH @ 100KH:	z , 100mV with 18mA bias current					
	VDC , for 60sec. min					
	Hz < f ≤ 500 MHz					
3.1 db						
	5.1 UU 5 db					
	23 db					
	23 db					
	20 db					
eqency in MHz						
t has been tested for DC isolation. HARTING assumes no n for AC isolation testing. e that the M12 Magnetics connector generates less high -3GHz) compared to an RJ45 with magnetics. In						
	requency losses to pass the ss filtering network to the M12 Iling (see Detail A) D					
	E					
	Ref. Sub.					
by Standardisation 302077	Date State 2021-03-15 Final Release					
ceptacles X-coded 10G	straight,SMT					
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7	8					

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	TAPE LAYOUT & PACKA	AGING					APPLICATION IN	FORMATION		
B	2. Stencil recommen The size of the so In general, thinner	er receptacle conn ndation lder stencil apertu stencils will need ed solder paste v	<u>SSING</u> nectors are solderable of ures is depending on th larger apertures to re olume for the signal pir Single pin	e thickness of esult in the req	the stencil. uired volume of solde	paste.				
	Stencil thickness	PCB pad size	proposal stencil apertu	ire size calci	ulated solder paste volu	ne				
Ш	120 µm	2,1 x 0,7 mm	2,05 x 0,65 mm		0,160 mm ³					\geq
С	HARD TRAY LAYOUT &		<u> </u>	<u>51600</u>	<u> </u>					
E	54.5					180,0				
F							Origin All right Department E HARTING D-32339 Espelkamp	LPD	1:1 Created by 402664 Title M12 tran Type DS	e size tol. Inspected by ZENGD Number recep Number 210338
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y Standardisation 302077	Date State	
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ceptacles X-coded 10G straight,SMT		
3810103 Rev. E Page 4/4		
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Α3

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