

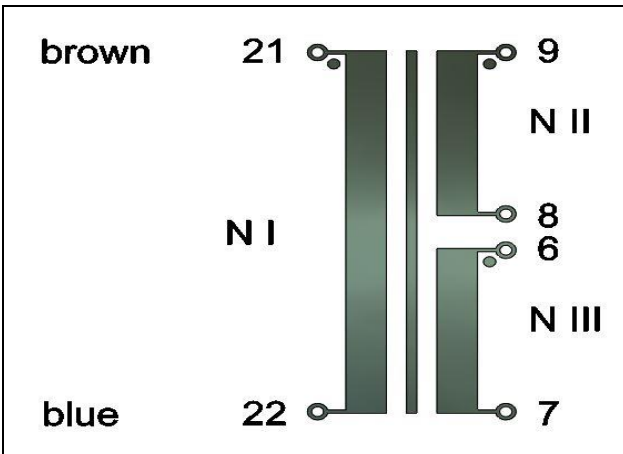
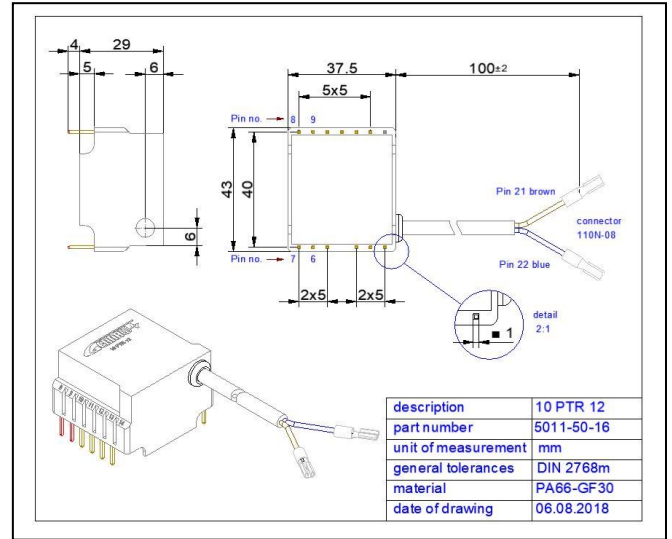
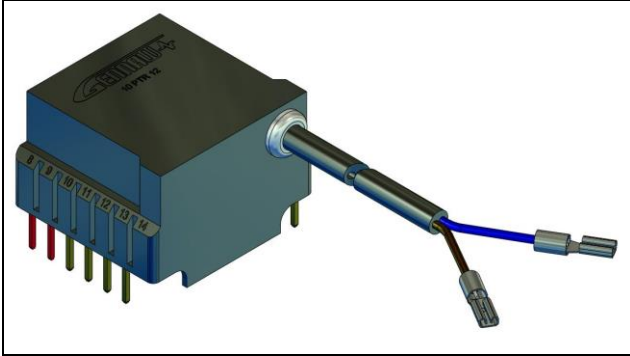
Pulse Drive Transformer

10 W

10 PTR 12 D26 P00

$V_{In,nom} = 12\text{ V}$

$V_{Out\ 1,2} = 26\text{ V}$



High Switching Frequency Ferrite Pulse Drive Transformer

$f = 50\text{ kHz} - 100\text{ kHz}$

V_{in}	N_I	N_{II}	N_{III}
12V	8	18	18
V_{o1}, V_{o2}		26V	
I_{o1}, I_{o2}		0.2A	0.2A
$P_{o,nom}$	11W		
Voltage x Time Area $ V_{in} dt$	330 μ Vs		
Operating temperature range	- 40°C to + 85°C		
Storage temperature range	- 40°C to + 100°C		

Design acc. ISO 9001: 2015

Input to Output Isolated: 10.2kV rms 1 minute type test

High partial discharge voltage withstand

Low coupling capacitance input || output < 50pF

Low stray inductance: < 1% L_{nom}

All transformers piece unit tested at factory in Karlsbad Germany

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SYMBOL	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
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INPUT, OUTPUT						
V_{in}	Input voltage		10	12	14	V
f_{sw}	Switching frequency		40	60	100	kHz
I_{in}	Input current	@ 40 kHz $\leq f_{sw} \leq$ 100kHz		t.b.m.		
L_I	Primary inductance	$f = 10$ kHz measurement frequency	200	300	400	μ H
L_{II}	Secondary inductance		1050	1500	2025	μ H
L_{III}	Secondary inductance		1050	1500	2025	μ H
$R_{Cu,1}$			100			m Ω
$R_{Cu,2,3}$			360			m Ω
$C_{k I}$ to $C_{k II, III}$				37	50	pF

ISOLATION						
	1 minute @ type test		10.2			kV _{eff}
	Ramp 2s - 6s - 2s @ piece unit test					
	Input Output 1, Output 2			10.2		kV _{eff}
	Output 1 Output 2		500			V _{eff}

PROTECTION						
	Housing potted, plastic cover	IP 52				
Connecting	Input	Strip lines, 2 wires		0.75		mm ²
	Output 1, 2	Pin diameter	1.0			mm
Weight				80	85	g

AMBIENT CONDITIONS						
$T_{Amb op}$	Operating temperature range	EN 50155 2016 class Tx 10 minutes (+ 85°C)	- 50 + 70		+ 85 + 85	°C
$T_{Storage}$	Storage temperature range		- 50		+ 100	°C
	Cooling		Free convection			
	Humidity	EN 50155, IEC 60571	75% averaged per year, 95% 30 days			
	Vibration / Shock	IEC 61373, IEC 68 – 2 - 27 Kat. I: 3 Shocks each Axis	50 m / s ² , 30 ms			

Pin Assign				Remark
Primary N_I				
Pin 21	Strip line brown	• Begin winding		
Pin 22	Strip line blue	End winding		
Secondary N_{II}				
Pin 9	Solder pin	• Begin winding		
Pin 8	Solder pin	End winding		
Secondary N_{III}				
Pin 6	Solder pin	• Begin winding		
Pin 7	Solder pin	End winding		