

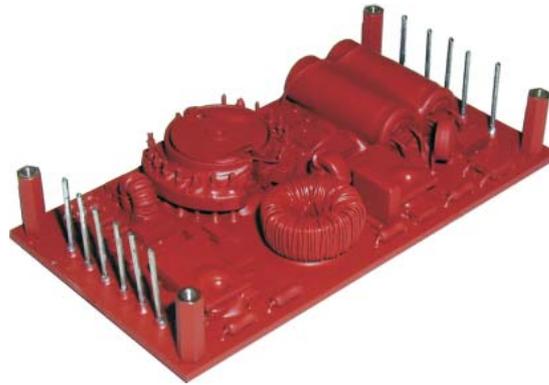
double / triple output
up to 10 Watt

DC/DC converters
with isolation



for Railway applications, Automotive applications, Special technology

- **Input voltage range > 10:1**
- **PCB-mountable**
Distant bolts for screw-mounting
- **Open build-up (for thermal stress)**
- **Over voltage protection (Logic)**
- **Input current filter C-L-C**
- **Output spike filter C-L²-C**
- **-40/+85°C (Option)**
- **Dyn. and stat. short circuit proof**



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Series DRI - B/T

Main Points:

Output:

- Accuracy absolute $\pm 1\%$
- Regulation factor $\Sigma(U_{in} + I_{out} + T_U) < \pm 1,5\%$
- Ripple $< 2\text{ mV}_{rms}$ (const. over T_U)
- Spikes $< 60\text{ mV}_{pp}$ (T 1:1/50MHz)
- Response time $\Delta I=50\% \leq 50\ \mu\text{s}$
- Current limiting $< 1,2 I_{outmax}$
- No intercircuit interference
- No-load-, over-load-, short circuit proof
- Outputs isolated in-between each other

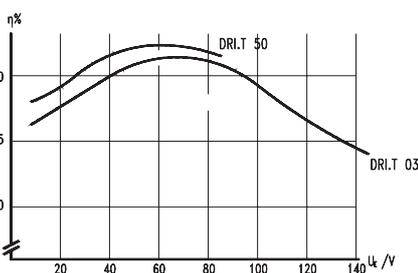
Input:

- No-load power 1,2 Watt
- ON-OFF-application (Inhibit)
- Input current filter C - L - C
- Chopper capacitors for I_{rms} at T_{Umax}
- On-load current limiting
- Do not use without application circuit
- Noise suppression (see application)

General:

- Over voltage protection
- Isolation test voltage $1,5\text{kV}_{AC}$ 1 Min,
- Ambient temperature $-25^\circ\text{C} / +70^\circ\text{C}$,
Option H: $-40^\circ\text{C} / +85^\circ\text{C}$
- Derating $1,5\%/^\circ\text{C} > 60^\circ\text{C}$
- Convection cooled
- MTBF On request
- Shock/vibration see annex V
- Weight approx. 75 g
- Dimension: $95 \times 51 \times 18\text{ mm}^3$

Efficiency:



<u>U_{in}</u> V	<u>U_{out}</u> V	<u>I_{out}</u> A	Model- number
triple output			
14,4 - 85	5,1 ± 12	1,2 $\pm 0,1$	DRI-T 50-05-12-12-010
	24 ± 5	0,25 $\pm 0,15$	DRI-T 50-24-05-025-015
14,4 - 158	5,1 ± 12	1,2 $\pm 0,1$	DRI-T 03-05-12-12-010
190V dyn.			
	24 ± 5	0,25 $\pm 0,15$	DRI-T 03-24-05-025-015
double output			
14,4 - 85	5,1 12	1,2 0,2	DRI-B 50-05-12-12-020
14,4 - 158	5,1 15	1,0 0,3	DRI-B 03-05-15-10-030
190V dyn.			
single output			
On request: single output 14,4 - 158V			U _{out} : 12 / 15 / 24V
(H)	-40°C up to +85°C		Additional charge
Modification costs for possible changes above values			On request

Stand: 08/07

