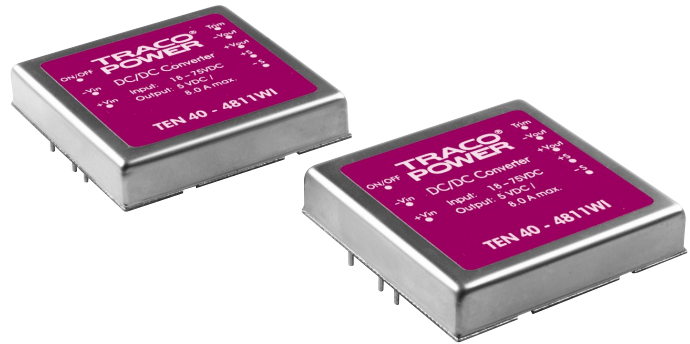


# DC/DC Converters

## TEN 40WI Series, 40 Watt

- ◆ Highest Power Density in 51x51x10 mm Metal Package
- ◆ Ultrawide 4:1 Input Range
- ◆ Very high Efficiency up to 88 %
- ◆ Operating Temperature Range  $-40^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$
- ◆ Under- / Over-Voltage Lockout
- ◆ I/O Isolation 1500 VDC
- ◆ Short Circuit Protection
- ◆ Remote On/Off
- ◆ Adjustable Output Voltage

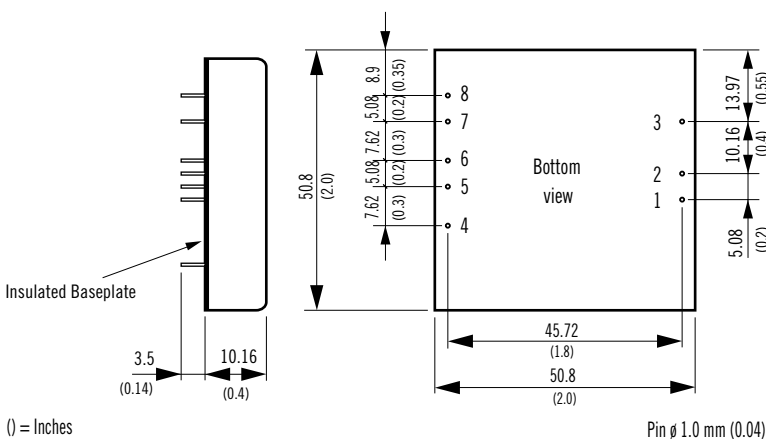


**NEW**  
Product

**cUL**<sup>®</sup>  
us  
pending

Models			
Order code	Input voltage	Output voltage	Output current max.
TEN 40-2410WI	9 – 36 VDC	3.3 VDC	10'000 mA
TEN 40-2411WI		5 VDC	8'000 mA
TEN 40-2412WI		12 VDC	3330 mA
TEN 40-2413WI		15 VDC	2660 mA
TEN 40-2422WI		$\pm 12$ VDC	$\pm 1660$ mA
TEN 40-2423WI		$\pm 15$ VDC	$\pm 1330$ mA
TEN 40-4810WI	18 – 75 VDC	3.3 VDC	10'000 mA
TEN 40-4811WI		5 VDC	8'000 mA
TEN 40-4812WI		12 VDC	3330 mA
TEN 40-4813WI		15 VDC	2660 mA
TEN 40-4822WI		$\pm 12$ VDC	$\pm 1660$ mA
TEN 40-4823WI		$\pm 15$ VDC	$\pm 1330$ mA

- Line regulation:**  $\pm 1.0\%$  max.
- Load regulation:**
  - Single output models:  $\pm 0.5\%$  max.
  - Dual output models:  $\pm 1.0\%$  max.
- Output voltage adjustment:**  $\pm 10\%$  (by external resistor)
- Ripple & Noise:**
  - 3.3 / 5 VDC output models:  $< 50$  mVpk-pk (20 MHz BW)
  - all other output models:  $< 75$  mVpk-pk (20 MHz BW)
- Conducted EMI:** EN 55022, class A and FCC, level A (with external capacitor)
- Short circuit protection:** continuous, automatic recovery
- Efficiency:** 86% typ.
- Operating temperature range:**  $-40^{\circ}\text{C}$  ...  $+85^{\circ}\text{C}$   
for derating see datasheet
- I/O isolation voltage:** 1500 VDC
- Safety standards / approvals:** cUL /UL 60950-1, IEC/EN 60950-1
- Case:** metal, 6-side shielded with insulated baseplate
- Remote On/Off:** shutdown input for low input current (3 mA)  
in standby operation



Pin-Out		
Pin	Single output	Dual output
1	+ Vin (Vcc)	+ Vin (Vcc)
2	- Vin (GND)	- Vin (GND)
3	Remote On/Off	Remote On/Off
4	- Sense	+ Vout
5	+ Sense	Common
6	+ Vout	Common
7	- Vout	- Vout 2
8	Trim	Trim

( ) = Inches

Pin  $\phi$  1.0 mm (0.04)