

DC-DC Converters



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TEN 10 Series 10 Watt

- 51x25x10mm Metal Package
- Wide 2:1 Input Range
- High Efficiency up to 83%
- Operating Temperature Range -40°C to $+85^{\circ}\text{C}$
- I/O Isolation 1500 VDC
- Short Circuit Protection
- Input Filter to meet EN 55022, Class A
- Industry Standard Pinout



Line regulation: $\pm 0.2\%$ max.
 Load regulation: – Single output models: $\pm 0.5\%$ max.
 – Dual output models: $\pm 1.0\%$ max.
 Ripple & Noise: < 50 mV pk-pk (20 MHz BW)
 Conducted EMI: EN 55022, class A and FCC, level A (internal filter)
 Short circuit protection: continuous, automatic recovery
 Efficiency: 81% typ. 3.3VDC models: 75% typ.
 Operating temperature range: -40°C ... $+85^{\circ}\text{C}$ above 70°C derating 4%/ $^{\circ}\text{C}$
 I/O isolation voltage: 1500 VDC
 Safety standards / approvals: cUL /UL 60950, IEC/EN 60950
 Case: metal, 6-side shielded with insulated baseplate

Models				
Order Code	Input voltage	Output voltage	Output current max.	
TEN 10-1210	9 - 18 VDC	3.3 VDC	2400 mA	
TEN 10-1211		5 VDC	2000 mA	
TEN 10-1212		12 VDC	830 mA	
TEN 10-1213		15 VDC	670 mA	
TEN 10-1215		24 VDC	415 mA	
TEN 10-1221		± 5 VDC	± 1000 mA	
TEN 10-1222		± 12 VDC	± 415 mA	
TEN 10-1223		± 15 VDC	± 330 mA	
TEN 10-2410		18 - 36 VDC	3.3 VDC	2400 mA
TEN 10-2411			5 VDC	2000 mA
TEN 10-2412	12 VDC		830 mA	
TEN 10-2413	15 VDC		670 mA	
TEN 10-2415	24 VDC		415 mA	
TEN 10-2421	± 5 VDC		± 1000 mA	
TEN 10-2422	± 12 VDC		± 415 mA	
TEN 10-2423	± 15 VDC		± 330 mA	
TEN 10-4810	36 - 75 VDC		3.3 VDC	2400 mA
TEN 10-4811			5 VDC	2000 mA
TEN 10-4812		12 VDC	830 mA	
TEN 10-4813		15 VDC	670 mA	
TEN 10-4815		24 VDC	415 mA	
TEN 10-4821		± 5 VDC	± 1000 mA	
TEN 10-4822		± 12 VDC	± 415 mA	
TEN 10-4823		± 15 VDC	± 330 mA	

Pin-Out		
Pin	Single Output	Dual Output
1	+ Vin (Vcc)	+ Vin (Vcc)
2	- Vin (GND)	- Vin (GND)
3	+ Vout	+ Vout
4	No pin	Common
5	- Vout	- Vout

