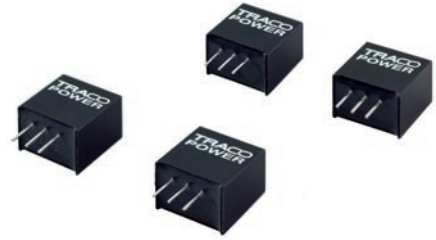


TSR-1 Series ▶ 1 A

- ▶ High performance switching regulator
- ▶ High Efficiency up to 96 %
- ▶ No Heatsink required
- ▶ Low standby current
- ▶ Wide input voltage range 4.75 to 32 VDC
- ▶ Output voltages from 1.5 to 15 VDC
- ▶ Pin compatible with LM78xx linear regulator
- ▶ Short circuit protection
- ▶ Low output ripple & noise



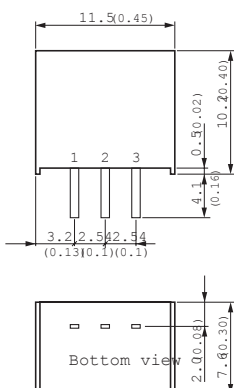
Specifications

Line regulation	0.2 % max.
Load regulation	0.4 % max.
Ripple & noise (20 MHz BW)	<50 Vpk-pk for models up to 6.5 VDC output <75 Vpk-pk for models higher 6.5 VDC output
Short circuit protection	continuous, automatic recovery
Efficiency	90 % typ.
Operating temperature range	-40 °C to +85 °C above 60 °C derating 2.4 %/K
I/O isolation voltage	non-isolated
Standby input current	2 mA typ.
Case	plastic (UL 94 V-0 rated)

Models

Order code	Input voltage	Output voltage	Output current max.
TSR 1-2415	4.75 – 32 VDC	1.5 VDC	1000 mA
TSR 1-2418	4.75 – 32 VDC	1.8 VDC	1000 mA
TSR 1-2425	4.75 – 32 VDC	2.5 VDC	1000 mA
TSR 1-2433	5.5 – 32 VDC	3.3 VDC	1000 mA
TSR 1-2450	6.5 – 32 VDC	5.0 VDC	1000 mA
TSR 1-2465	9.0 – 32 VDC	6.5 VDC	1000 mA
TSR 1-2490	12 – 32 VDC	9.0 VDC	1000 mA
TSR 1-24120	15 – 32 VDC	12 VDC	1000 mA
TSR 1-24150	18 – 32 VDC	15 VDC	1000 mA

Dimensions



() = Inches

Pin

1	+Vin (Vcc)
2	GND
3	+Vout