

**Single outputs  
Non-isolated**

- Ultra wide input voltage ranges
- Very high efficiency up to 95%
- Inhibit input (optional)
- Output voltage trim function (optional)
- Excellent dynamic load regulation
- Continuous no-load and short-circuit proof
- 2" x 2" case, h = 0.5"
- Made in Switzerland, accordingly ISO 9001:2000
- 2 years warranty



**Electromagnetic emission EN 55022 < B**  
Conducted and radiated emissions

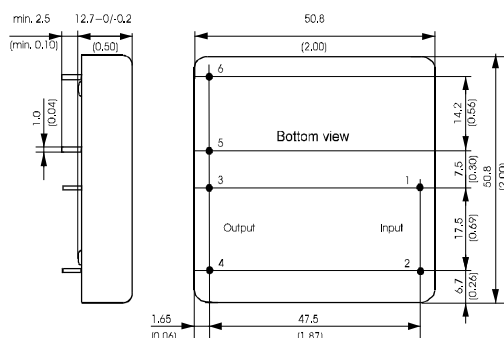
No load input current	10 mA max.
Input current in inhibit mode	3 mA typ.
Switching frequency	250 kHz typ.
Output voltage accuracy	± 1%; 5.1 VDC output ± 1.4% max.
Static line regulation	± 0.3% typ.
Static load regulation FL to NL	0...0.3% typ.
Output voltage noise (20 MHz BW)	50 mVpp; 5.1 VDC output 30 mVpp typ.
Efficiency	91% to 95% typ.
Dynamic load regulation	20 ISN: ± 100mV <sup>1</sup> 40 ISN: ± 150mV <sup>1</sup>
Load transient recovery time	20 ISN: 300 µs typ. 40 ISN: 500 µs typ.
Inhibit input (i)	Open or apply -0.3...+0.8 VDC for normal operation. Apply +2.4...+5.5 VDC to switch off the output voltage.
Ambient temperature range	-T: -25...+71°C
Case temperature range	-T: -25...+95°C
Storage temperature range	-T: -55...+105°C
Case material	Metal, moulded
MTBF, GB @ 40°C case	> 2.150.000 hours
(MIL-HDBK-217F, Notice 2)	

<sup>1</sup> For 33% load variation with a rise/fall time of ≥ 50 µs

Standard Types	Input voltage VDC	Output	
		VDC	mA
Single output			
20 ISN15-05-T RoHS	7...40	5.1	3000
20 ISN25-05-T RoHS	7...40	5.1	5000
20 ISN36-12-T RoHS	15...40	12	3000
20 ISN45-15-T RoHS	19...40	15	3000
	(nominal 20)		
Single output			
40 ISN15-05-T RoHS	8...75	5.1	3000
40 ISN20-05-T RoHS	8...75	5.1	4000
40 ISN30-12-T RoHS	15...75	12	2500
40 ISN38-15-T RoHS	19...75	15	2500
	(nominal 40)		

Modifications and customs are available upon request.

Dimensions in mm (inches)



Option R:

The output voltage can be adjusted with an external resistor in the range of +10%.

Pin Configuration	
Pin	Single output
1	+Vi
2	-Gi
3	+Vo
4	-Go
5 <sup>2</sup>	i
6 <sup>3</sup>	R

<sup>2</sup> Optional Inhibit pin. If required add i to type number, e.g. 20 ISN25-05-Ti RoHS.

<sup>3</sup> Optional Trim pin. If required add R to type number, e.g. 20 ISN25-05-TiR RoHS.