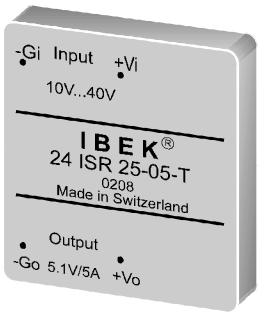
Single outputs
Non-isolated



- Ultra wide input voltage ranges
- Very high efficiency up to 93%
- Inhibit input (optional)
- Excellent dynamic load regulation
- Continuous no-load and short-circuit proof
- ISR15: Extended ambient temperature range -40…+85ºC
- 2" x 2" case, h = 0.41"
- Made in Switzerland, accordingly ISO 9001:2000
- 2 years warranty

Electromagnetic emission EN 55022 < B
Conducted and radiated emissions

No load input current		15 mA max.
Input current in inhibit mode		3 mA max.
Switching frequency		150 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…0.7% typ.
Output voltage noise (20 MHz BW)		50 mVpp; 5.1 VDC output 30 mVpp typ.
Efficiency		87% to 93% typ.
Dynamic load regulation	ISR15:	± 100mV; 5.1 VDC output ± 80 mV max.[1]
	ISR25:	± 150mV; 5.1 VDC output ± 100 mV max.[1]
Load transient recovery time	ISR15:	300 µs; 5.1 VDC output 100 µs typ.[1]
	ISR25:	500 µs; 5.1 VDC output 200 µs typ.[1]
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…+71ºC [2]; -S: -40…+85ºC
Case temperature range		-T: -25…+95ºC; -S: -40…+105ºC
Storage temperature range		-T: -55…+105ºC; -S: -55…+105ºC
Case material		Metal with plastic bottom cover, UL94 V-0 rated
MTBF, GB @ 40ºC case (MIL-HDBK-217F, Notice 2)		> 2.150.000 hours

[1] For 33% load variation with a rise/fall time of ≥ 50 µs
[2] 24 ISR25-05-T: Power derating 2.9%/ºC above 60ºC

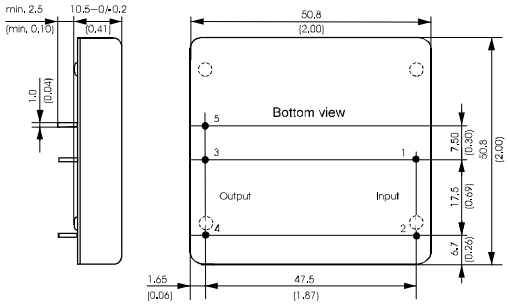
Standard Types	Input voltage VDC	Output VDC	Output mA
Single output			
24 ISR15-05-T [3]	8…40	5.1	3000
24 ISR15-12-T [3]	16…40	12	1250
24 ISR15-15-T [3]	19…40 (nominal 24)	15	1000
Single output			
24 ISR25-05-T	10…40 [4]	5.1	5000
24 ISR25-12-T	16…40	12	2100
24 ISR25-15-T	19…40 (nominal 24)	15	1700

[3] Extended temperature range -S is available for all ISR15-types. Replace -T by -S on type number, e.g. 24 ISR15-05-S.
Attention: Operation in extended temperature range requires an external input capacitor of 220 µF, connected as close as possible to the input pins.

[4] Down to 8 VDC at reduced output current of 2000 mA.

Modifications and customs are available upon request.

Dimensions in mm (inches)



Pin Configuration	
Pin	Single output
1	+Vi
2	-Gi
3	+Vo
4	-Go
5 [5]	i

[5] Optional inhibit pin. If required add i to type number, e.g. 24 ISR15-05-Ti.