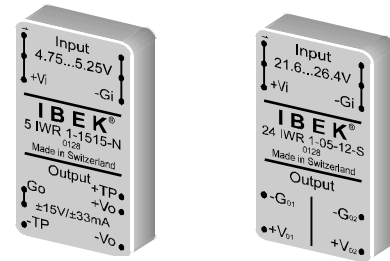


Single, double, dual & quadruple outputs
Input to output isolated
Dual & quadruple outputs: Output to output isolated

- Input voltage tolerance $\pm 10\%$ ($\pm 5\%$)
- Pi-input filter
- I/O Electric strength test voltage 1500 VDC
- High reliability
- Linear regulated output voltages
- Extended ambient temperature range $-40...+85^{\circ}\text{C}$
- No derating
- Made in Switzerland, accordingly ISO 9001:2000
- 2 years warranty

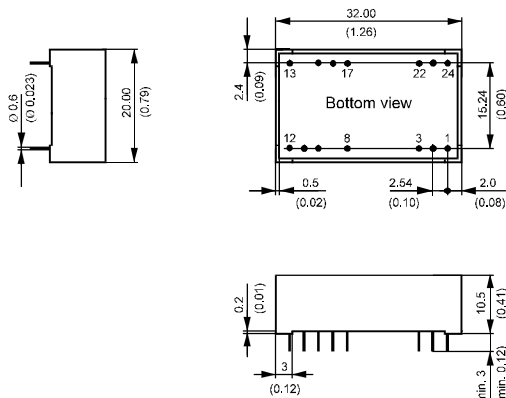


Electromagnetic emission EN 55022 < B
Conducted and radiated emissions

	5 IWR	12 IWR	15 IWR	24 IWR	
No load input current	15...85	15...35	15...30	15	mA typ.
Output voltage noise (20 MHz BW)	25...60	35...60	40...60	45...60	mVpp typ.
Switching frequency	25 ... 260 kHz typ.				
Output voltage accuracy	$\pm 5\%$; 5 VDC outputs $\pm 3\%$ max.				
Static line regulation	$\pm 0.2\%$; 5 VDC outputs $\pm 0.3\%$ typ.				
Static load regulation FL to NL	$\pm 0.1\%$; 5 VDC outputs $\pm 0.3\%$ typ.				
Efficiency	58% ... 68% (± 5 VDC outputs 40%) typ.				
I/O Electric strength test voltage	1500 VDC				
O/O Electric strength test voltage	1500 VDC				
I/O Clearance and creepage distances	≥ 1 mm				
Coupling capacitance	10 ... 30 pF typ.				
Ambient temperature range	-N: $0...+71^{\circ}\text{C}$				
- Extended	-T: $-25...+71^{\circ}\text{C}$; -S: $-40...+85^{\circ}\text{C}$				
Case temperature range	-N: $0...+91^{\circ}\text{C}$				
- Extended	-T: $-25...+91^{\circ}\text{C}$; -S: $-40...+105^{\circ}\text{C}$				
Storage temperature range	All: $-55...+105^{\circ}\text{C}$				
Case material	Non-conductive plastic, UL94 V-0 rated				
MTBF, GB @ 40°C case (MIL-HDBK-217F, Notice 2)	$> 5.700.000$ hours				

Max. admissible capacitive load 10 μF ; 5 VDC outputs 22 μF

Dimensions in mm (inches)



Standard Types ¹	Input voltage VDC	Output 1		Output 2	
		VDC	mA	VDC	mA
Single output	4.75...5.25 (nominal 5)	5	200	-	-
xx IWR1-05-N		12	80	-	-
xx IWR1-12-N		15	66	-	-
Double output	10.8...13.2 (nominal 12)	± 5	± 50	-	-
xx IWR1-0505-N	13.5...16.5 (nominal 15)	± 12	± 40	-	-
xx IWR1-1212-N		± 15	± 33	-	-
xx IWR1-1515-N					
Dual output	21.6...26.4 (nominal 24)	5	100	5	100
xx IWR1-05-05-N		5	100	12	40
xx IWR1-05-12-N		5	100	15	33
xx IWR1-05-15-N		12	40	12	40
xx IWR1-12-12-N		15	33	15	33
xx IWR1-15-15-N					
Quadruple output		± 5	± 50	± 5	± 50
xx IWR1-2x0505-N		± 12	± 20	± 12	± 20
xx IWR1-2x1212-N		± 15	± 17	± 15	± 17
xx IWR1-2x1515-N					

¹ To complete type number replace "xx" by the required nominal input voltage, e.g. 5 IWR1-1515-N.

Extended temperature ranges -T and -S are available for all types. Replace -N by -T or -S on type number, e.g. 24 IWR1-05-12-S.

Modifications and customs are available upon request.

Pin Configuration				
Pin	Single output	Double output	Dual output	Quadruple output
1	+Vi	+Vi	+Vi	+Vi
2	+Vi	+Vi	+Vi	+Vi
3	+Vi	+Vi	+Vi	No Pin
8	No Pin	No Pin	-Go1	-Vo1
10	No Pin	Go	No Pin	Go1
11	No Pin	Go	No Pin	No Pin
12	-Go	-TP	+Vo1	+Vo1
13	+Vo	-Vo	+Vo2	+Vo2
15	No Pin	+Vo	No Pin	Go2
16	No Pin	+TP	-Go2	No Pin
17	+TP	No Pin	No Pin	-Vo2
22	-Gi	-Gi	-Gi	No Pin
23	-Gi	-Gi	-Gi	-Gi
24	-Gi	-Gi	-Gi	-Gi