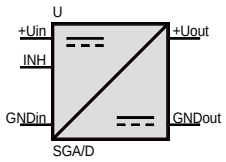
DIN EN ISO 9001 certified

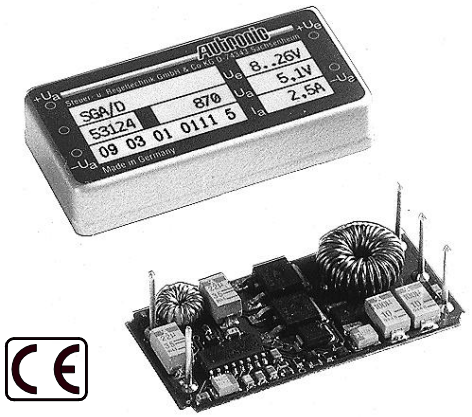
Autronic

Steuer- u. Regeltechnik GmbH & Co KG D-74343 Sachsenheim

Switching Regulator SGA/D
Output power up to 13 Watts

Non isolated - Single Output
PCB mounting





Technology

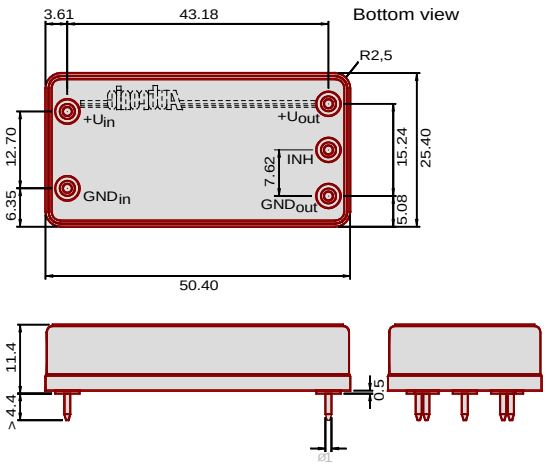
- MOSFET Design in surface mount technology

Special Features

- Input filtering according to EN 55022:1994 Class B
- Output filtering according to Vfg 243/1991
- Short circuit protected and zero load operation
- Remote off (inhibit) with TTL - H- Signal
- Constant curent limitation
- Vibration resistant and indifferent to humidity due to encapsulated case
- Six-sided shielded

Drawing

Dimensions in mm, Tolerance +0,5 mm



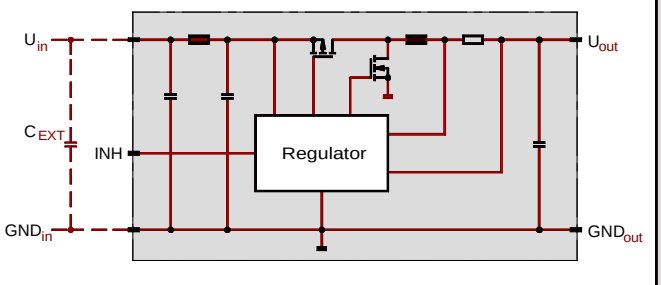
Specifications

at J_{amb}= 25°C, $U^{*}_{in\ nom}$, $I_{out\ nom}$

Temperature		
Ambient air	J_{amb}	= -40...+85°C
Storage	J_S	= -40...+100°C
Rise in case	DJ_C	≤ 38 K
Output voltage		
Tolerance DU_{out}/%		≤ +3 / -4
Output ripple u_{out}/mV_{rms} (-40°C...+85°C)		≤ 0,2
Output ripple peak-peak u_{pp} /mV		≤ 0,8
Rise time at $I_{out\ nom}$: t_{on} /ms		≤ 6
Temperature coefficient TC/%/K		≤ 0,02
Regulation at J_{amb} = -40°C...+85°C		
Line regulation DU_{out}/mV for 100% DU_{in}		≤ 15
Load regulation DU_{out}/mV per A load static		≤ 20
DU_{out}/mV per A load change at < 300 µs		≤ 100****
Remote on/off contol		
Inhibit voltage U_{inh}/V for U_{out} = "off"		= 2...7
for U_{out} = "on"		≤ 0,8 or open
Inhibit current for U_{inh}= 5 V : I_{inh} /µA		≤ 25
Input current in Standby-Mode I_{in} /µA		≤ 400
Weight M/g		= 35

U_{out} V	$U_{in\ range}$ ** V	J_{amb} °C	I_{out} A	h*** %	Order Number
3,3	4,5...26	50	2,7	82	09 03 00 0111 6
		70	2,1	86	
		85	1,7	89	
5*	8...26	50	2,5	87	09 03 01 0111 5
		70	2,0	89	
		85	1,5	92	

Block diagram



C_{EXT} = 100 µF connected to converter

* Preset to 5,1 V
** $U_{in\ nom}$ = 12 V and 24 V
*** At $U_{in\ nom}$ = 24 V

**** $I_{out\ min}$= 0,1 $I_{out\ nom}$

Specifications subject to change without notice