

Largely Adopted In World Important Electronic Devices.

1.5Watt BY-L Series

Ultra Low Noise, Small Size Single Dual Output DC-DC Coverters/BY-L 1.5Watt Series

Ultra Low Noise 8mVpp, Wide Temperature Range -25°C to +71°C, Isolated Type DC-DC Converters

Input: 5V

Output: 5V, 9V, 12V, 15V, ±5V, ±12V, ±15V



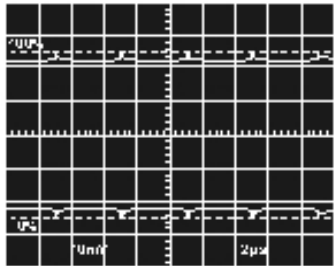
- 24pin-DIP IC size
- MTBF 1,000,000Hrs
- Short Circuit, Over-Current Protection
- No Electrolytic Capacitor, No Tantalum Capacitor
- 5-Size Metallic shield structure
- Built-in EMI Line Filter
- Over-Heat Protection
- Long-Life with TCT Patent Circuit
- I/O Isolation DC500V
- Operating Temp. Range -25°C to +71°C
- (Temp. derating required from 50°C)

Models BSA Series	Input V Vdc *1	Output V Vdc	Output I mA	Input Reg %(typ)	Load Reg %(typ)	Noise mVpp(typ)	Efficiency %(typ)
BY05-05S30L	4.75-6	5	0-300	0.3	0.3	10	55
BY05-09S16L		9	0-160				60
BY05-12S12L		12	0-120				
BY05-15S10L		15	0-100				45
BY05-05W08L	4.75-6	±5	±0-80	0.3	0.3	8	60
BY05-12W06L		±12	±0-65				60
BY05-15W05L		±15	±0-53				60

- This model is compatible with the old BY series.

*1: Output derating required from input voltage above 5.25V

BY05-12W06L
Output Noise



+12V65mA/-12V65mA

3.3mVp-p

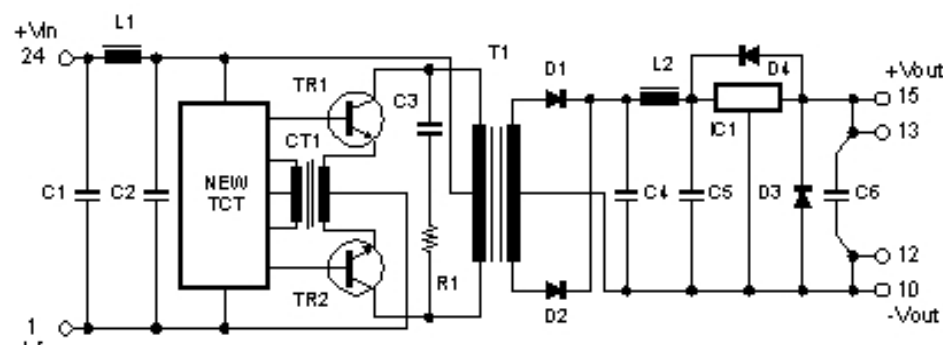
10mV/div, 2µs/div

Note!

This is a product outline.

Please refer to the catalogue, when designing.

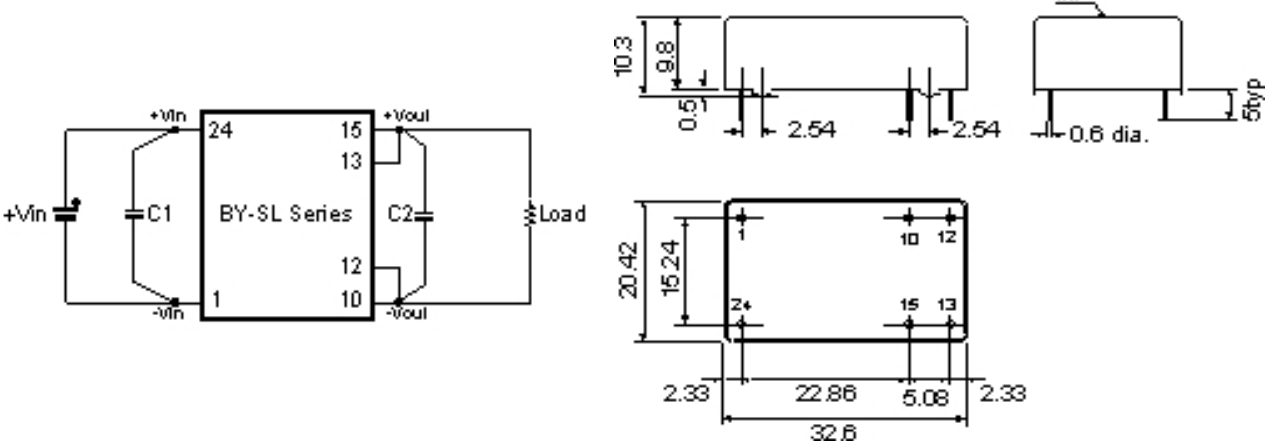
<BY-SL Series> (Strong to analog, digital with low common mode nise)



Pin	Function
1	-Vin
10	-Vout
12	-Vout
13	+Vout
15	+Vout
24	+Vin

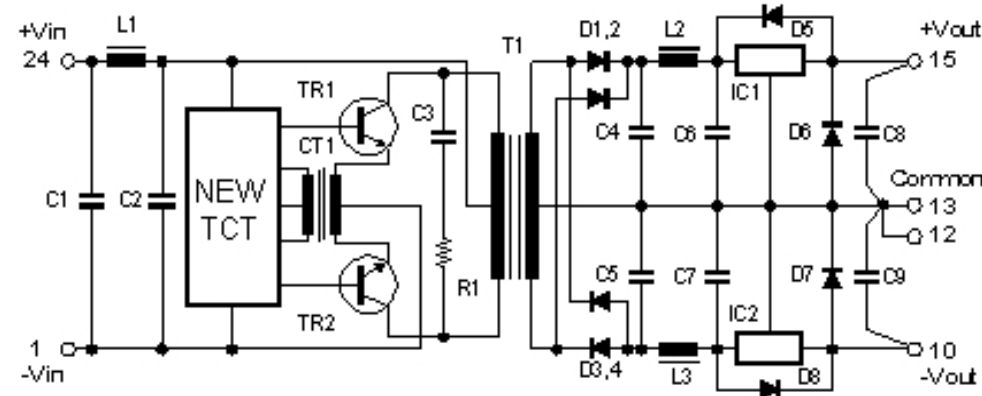
Dimensions: mm

Weight: 14gtyp



- Recommended Capacitor
- C1= 22µF-33µF (Electrolytic or multilayer ceramic capacitor)
- C2=0.47µF (Multilayer ceramic capacitor)

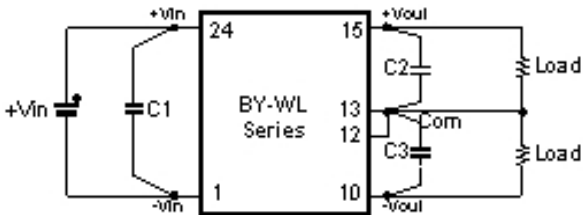
<BY-WL Series> (The best ultra low noise for analog circuits.)



Pin	Function
1	-Vin
10	-Vout
12	Common
13	Common
15	+Vout
24	+Vin

Dimensions: mm

Weight: 14gtyp



- Recommended Capacitor
- C1= 22µF-33µF (Electrolytic or multilayer ceramic capacitor)
- C2, C3=0.47µF (Multilayer ceramic capacitor)