

The Fifth Generation, Ultra Small Size, Isolated Type DC-DC Converter

Wide Input Voltage Range, Save Mounting Space !

3 Watt BTB Series

The Fifth Generation, Ultra Small Size, Isolated Type DC-DC Converter

Input: 5V, 12V, 24V, 48V

Output: 3.3V, 5V, 12V, 15V, ±12V, ±15V

	Models BTB Series	Input V Vdc		Line Reg. %(max.)	Load Reg. %(max.)	Ripple Noise mVpp(typ.)	Efficiency %(typ.)
- Adjustable Output Voltage	BTB05-03S80X	3.3	0-800	0.6	1.2		73
- Remote ON/OFF Control	BTB05-05S60X	5	0-600	0.4	0.8		77
- Dual Power Supply Usable As Single Power Supply	BTB05-12S25X	12(15)	0-250 (200)	0.35	0.85		82
- Isolation Voltage AC500V	BTB05-12W12X	±12(±15)	0-125 (100)	0.7	5		80
- Under Voltage Lock Out	BTB12-03S80X	3.3	0-800	0.6	1.2		74
- Over Current Protection	BTB12-05S60X	5	0-600	0.4	0.8		79
- No Electrolytic Capacitor, No Tantalum Capacitor	BTB12-12S25X	12(15)	0-250 (200)	0.35	0.85		82
- MTTF 2,000,000Hrs	BTB12-12W12X	±12(±15)	0-125 (100)	0.7	5		81
- Metallic Shield Cover	BTB24-03S80X	3.3	0-800	0.6	1.2		73
- Halogen-Free PCB Used	BTB24-05S60X	5	0-600	0.4	0.8		78
- Between Primary and Secondary isolation capacitance is approx. 40-140pF	BTB24-12S25X	12(15)	0-250 (200)	0.35	0.85		82
	BTB24-12W12X	±12(±15)	0-125 (100)	0.7	5		81
- Operating Temp Range -40°C to +85°C (Temp Derating Required)	BTB48-03S80X	3.3	0-800	0.6	1.2		73
	BTB48-05S60X	5	0-600	0.4	0.8		79
	BTB48-12S25X	12(15)	0-250 (200)	0.35	0.85		81
	BTB48-12W12X	±12(±15)	0-125 (100)	0.7	5		80

Note 1: Add the model type suffix where the **X** is where D : DIP type, S : SMD type
Ex.) DIP type: BTB05-03S80D, SMD type: BTB05-03S80S

Note 2: The output voltage inside () is when Vadj. and -Vout is short. The adjustable range of output voltages are: 3.15-3.6V (3.3V products), 4.75-6V (5V products), 11.4-15V (12V products) respectively.

Note 3: The output current inside () is when adjusted to the max. output voltage.

* Note! This catalogue is an outline of the products. When designing, be sure to refer to the data sheets.

<Outline> (DIP type)

<Outline> (SMD type)