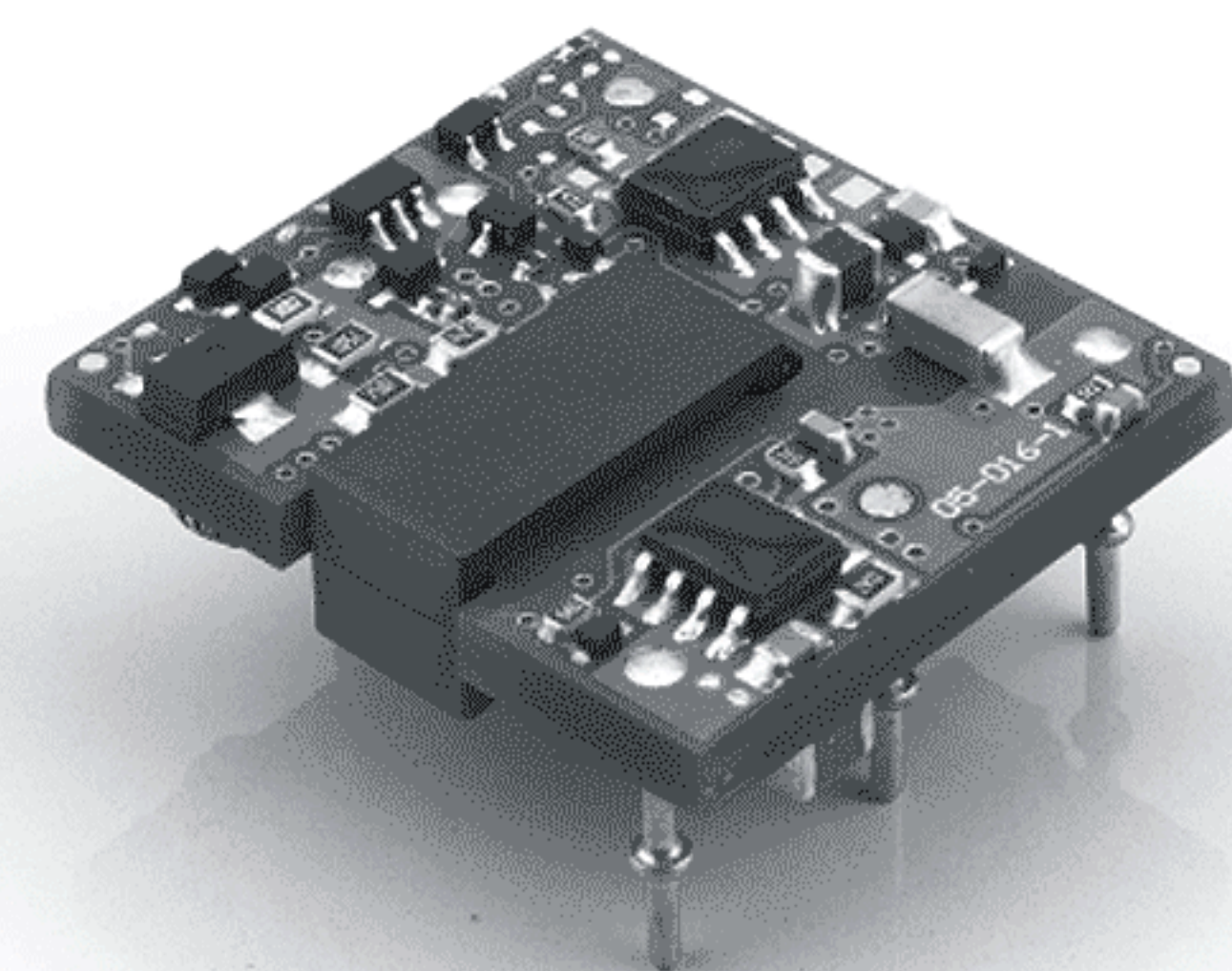


EC1SB

S E R I E S

NEW

PRELIMINARY



13.2 TO 15 WATT OPEN FRAME DC-DC CONVERTERS

Features

- 13.2 – 15W Isolated Output
- Efficiency to 89%
- Regulated Outputs
- Fixed Switching Frequency
- Input under-voltage Protection
- Over Current Protection
- Remote ON/OFF
- Continuous Short Circuit Protection
- Industry Standard 1.1" x 1" Packages
- Fully Isolated 2250VDC

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT MIN.	OUTPUT CURRENT MAX.	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	%EFF	SIZE
EC1SB -24S33	18-36 VDC	3.3 VDC	0 mA	4000 mA	30 mA	655mA	84	SB
EC1SB -24S05	18-36 VDC	5 VDC	0 mA	3000 mA	30 mA	735mA	85	SB
EC1SB -24S12	18-36 VDC	12 VDC	0 mA	1250 mA	40 mA	718mA	87	SB
EC1SB -24S15	18-36 VDC	15 VDC	0 mA	1000 mA	40 mA	718mA	87	SB
EC1SB -48S33	36-75 VDC	3.3 VDC	0 mA	4000 mA	30 mA	320mA	86	SB
EC1SB -48S05	36-75 VDC	5 VDC	0 mA	3000 mA	40 mA	359mA	87	SB
EC1SB -48S12	36-75 VDC	12 VDC	0 mA	1250 mA	30 mA	351mA	89	SB
EC1SB -48S15	36-75 VDC	15 VDC	0 mA	1000 mA	30 mA	351mA	89	SB

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....	24V.....18-36V
	48V.....36-75V
Undervoltage lockout	24Vin power up.....17V
	power down.....15.5V
	48Vin power up.....34V
	power down.....32.5V

Input Filter	PI Type
Positive Logic Remote on/off Control :	
Logic Compatibility.....	CMOS or Open Collector TTL
Module ON.....	>+5.5VDC or Open Circuit
Module OFF.....	<1.2VDC

OUTPUT SPECIFICATIONS:

Voltage Accuracy.....	±1.5% max.
Transient Response :25% Step Load Change.....	<500µ sec.
Ripple and Noise, 20MHz BW.....	75mV p-p max.

Temperature Coefficient.....	±0.03%/C max.
Short Circuit Protection.....	Continuous
Line Regulation ¹	±0.2% max.
Load Regulation ²	±0.2% max.
Over Voltage Protection.....	Zener or TVS Clamp
External Trim Adj. Range.....	±10%
Current Limit.....	110% - 140% Nominal Output

GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Voltage.....	2250 VDC min.
Isolation Resistance	10 ⁷ Ohms min.
Switching Frequency	400KHz Typ.
Operating Ambient Temperature Range.....	-40C to +85C
Derating, Above 71C	Linearly to Zero Power at +100C
Storage Temperature Range	-40C to +125C

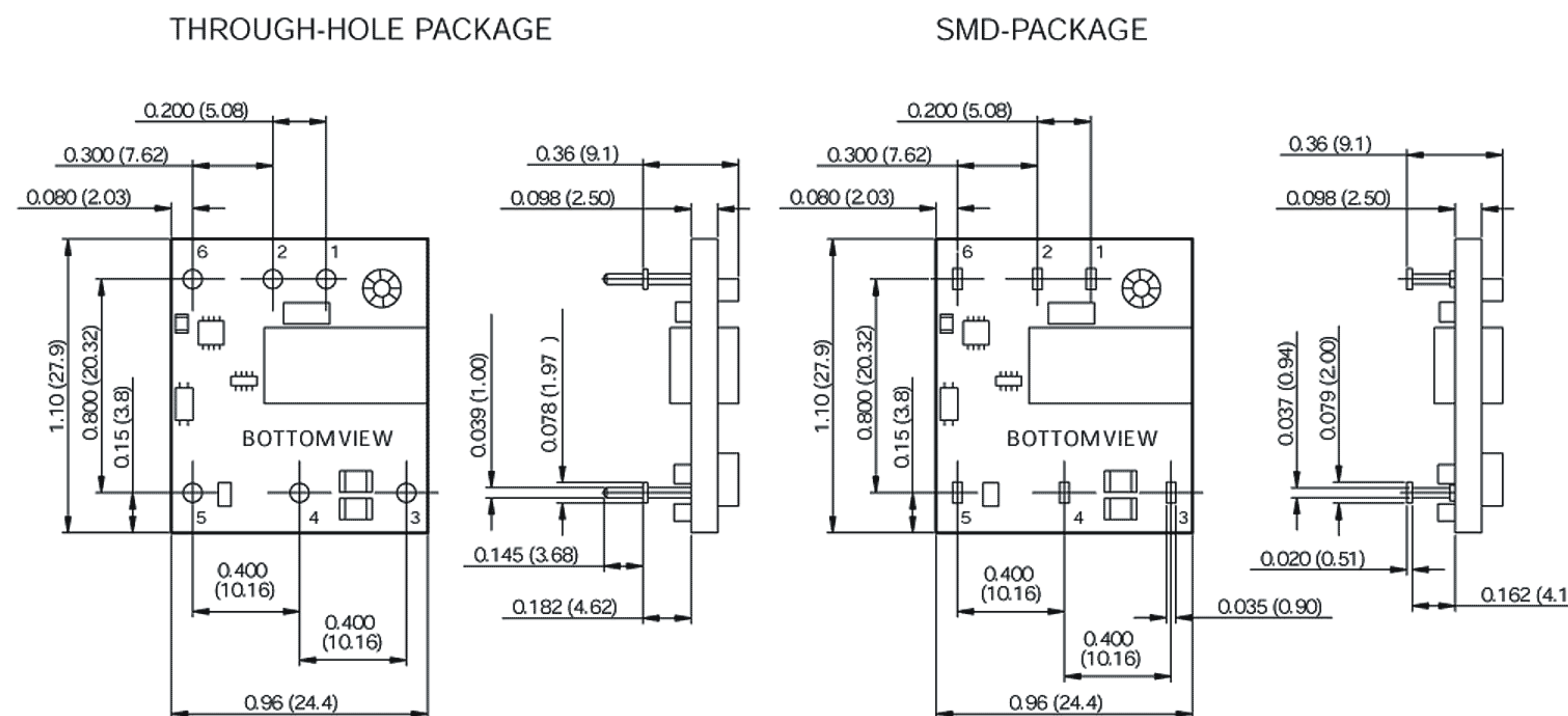
Dimensions.....	1.1 x 0.96 x 0.34 inches (27.9 x 24.4 x 8.5 mm)
Material.....	Non-potted With Open Frame Type
Weight.....	<8.8g

NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to min. Load
3. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF
Module ON.....<1.2VDC
Module OFF.....>+5.5VDC or Open Circuit
4. Suffix "S" to the Model Number with SMD Package
5. The Output Ripple and Noise is Measured with 10µF Tantalum and 1µF Ceramic Capacitor Across Output

SIZE SB

All Dimensions In Inches(mm)
Tolerance .xx= ±.02 (.x mm ± 0.5mm)
.xxx= ±.010 (.xx mm ± 0.25mm)



PIN CONNECTION

Pin	Function
1	+V Input
2	-V Input
3	+V Output
4	Trim
5	-V Output
6	Remote ON/OFF