The xRSB-50T series are isolated DC-DC converters that operate from a nominal 48 VDC source. These units will provide up to 60 W of output power from a nominal 48 VDC input. These units are designed to be highly efficient and low cost.

Features include remote on/off, over current protection and under voltage lockout. These converters are provided in an industry standard sixteenth brick package.

## Key Features & Benefits

- 48 VDC Input / 1.5-12 VDC @ 5-22 A Output / 1/16th Brick Converter
- Isolated
- Fixed Frequency (600 kHz)
- High Efficiency
- High Power Density
- Low Cost
- Input Under Voltage Lockout
- Output Voltage Trim
- Output Over Voltage Shutdown
- OCP/SCP
- Over Temperature Protection
- Remote On/Off
- Basic Insulation
- Positive/Negative remote sense
- Through Hole and SMT (option)
- Approved to UL/CSA/IEC60950-1, 2nd +A2 version
- Class II, Category 2, Non-Isolated DC/DC Converter (refer to IPC-9592B)

## Applications

- Networking
- Computers and Peripherals
- Telecommunications

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## 1. MODEL SELECTION

| MODEL NUMBER | MODEL NUMBER | OUTPUT VOLTAGE | INPUT VOLTAGE | MAX. OUTPUT CURRENT | MAX. OUTPUT POWER | TYPICAL EFFICIENCY |
|---|---|---|---|---|---|---|
| xRSB-50TV5L | xRSB-50TV50 | 1.5 V | 36 V - 75 V | 22 A | 33 W | 85% |
| xRSB-50TV8L | xRSB-50TV80 | 1.8 V | 36 V - 75 V | 20 A | 36 W | 87% |
| xRSB-50T02L | xRSB-50T025 | 2.5 V | 36 V - 75 V | 18 A | 45 W | 87% |
| xRSB-50T03L | xRSB-50T033 | 3.3 V | 36 V - 75 V | 15 A | 50 W | 89% |
| xRSB-50T05L | xRSB-50T050 | 5.0 V | 36 V - 75 V | 12 A | 60 W | 90% |
| xRSB-50T12L | xRSB-50T120 | 12 V | 36 V - 75 V | 5 A | 60 W | 89% |

**NOTE**: Add "G" or "H" suffix at the end of the model number to indicate tray packaging and "R" or "S" to indicate Tape and Reel packaging.

### PART NUMBER EXPLANATION

| x | R | SB | - | 50 | T | xx | x | y |
|---|---|---|---|---|---|---|---|---|
| Mounting Type | RoHS Status | Series Name | Series code | Input Range | Output Voltage | Active Logic | | Package Type |
| 0 - Through hole mount<br><br>S – Surface mount | RoHS | 1/16th Brick | - | 36 – 75 V | 1.5-12V | 0,3,5– active high<br>L – active low | | G/H – Tray package<br>G/H – Tray package<br>R/S – Tape and Reel package |

## 2. ABSOLUTE MAXIMUM RATINGS

| PARAMETER | DESCRIPTION | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|
| Continuous non-operating Input Voltage | | -0.3 | - | 80 | V |
| Input Transient Voltage | 100 ms maximum | -0.3 | - | 100 | V |
| Remote On/Off | | -0.3 | - | 18 | V |
| I/O Isolation Voltage | | - | - | 1500 | V |
| Ambient Temperature | | -40 | - | 85 | °C |
| Storage Temperature | | -55 | - | 125 | °C |
| Altitude | | - | - | 2000 | m |

**NOTE:** Ratings used beyond the maximum ratings may cause a reliability degradation of the converter or may permanently damage the device.

## 3. INPUT SPECIFICATIONS

All specifications are typical at 25°C unless otherwise stated.

| PARAMETER | DESCRIPTION | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|
| Operating Input Voltage | | 36 | 48 | 75 | V |
| Input Current (full load) | | - | - | 2.4 | A |
| Input Current (no load) | | - | 70 | 120 | mA |
| Remote Off Input Current | | - | 1 | 3 | mA |
| Input Reflected Ripple Current (rms) | Tested with simulated source impedance of 15 uH, 5 Hz to 20 MHz; use a 100 uF/100 V electrolytic capacitor with ESR=1 ohm max at 200 kHz at the input. | - | 3 | 7 | mA |
| Input Reflected Ripple Current (pk-pk) | | - | 20 | 50 | mA |
| I²t Inrush Current Transient | | - | 0.01 | 0.02 | A²s |
| Turn-on Voltage Threshold | | 31 | 32 | 35 | V |
| Turn-off Voltage Threshold | | 30 | 31 | 34 | V |

**NOTES:** All specifications are typical at 25 °C unless otherwise stated.

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## 4. OUTPUT SPECIFICATIONS

All specifications are typical at nominal input, full load at 25°C unless otherwise stated.

| PARAMETER | DESCRIPTION | | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| Output Voltage Set Point | Vo=1.5 V | Test conditions: Vin=48 V; Io=50% load | 1.478 | 1.5 | 1.523 | V |
| | Vo=1.8 V | | 1.773 | 1.8 | 1.827 | V |
| | Vo=2.5 V | | 2.463 | 2.5 | 2.538 | V |
| | Vo=3.3 V | | 3.250 | 3.3 | 3.350 | V |
| | Vo=5.0V | | 4.925 | 5.0 | 5.075 | V |
| | Vo=12 V | | 11.750 | 12.0 | 12.250 | V |
| Load Regulation | Vo=1.5-1.8 V | | - | ±0.5 | ±3 | mV |
| | Vo=2.5 V | | - | ±1 | ±6 | mV |
| | Vo=3.3 V | | - | ±3 | ±8 | mV |
| | Vo=5.0 V | | - | ±4 | ±9 | mV |
| | Vo=12 V | | - | ±10 | ±25 | mV |
| Line Regulation | Vo=1.5-2.5V | | - | ±3 | ±5 | mV |
| | Vo=3.3-5.0V | | - | ±4 | ±9 | mV |
| | Vo=12V | | - | ±9 | ±18 | mV |
| Regulation Over Temperature | Vo=1.5-1.8 V | | - | ±6 | ±14 | mV |
| | Vo=2.5-3.3 V | | - | ±9 | ±16 | mV |
| | Vo=5.0 V | | - | ±15 | ±30 | mV |
| | Vo=12 V | | - | ±20 | ±35 | mV |
| Output Current | Vo=1.5 V | | 0 | - | 22 | A |
| | Vo=1.8 V | | 0 | - | 20 | A |
| | Vo=2.5 V | | 0 | - | 18 | A |
| | Vo=3.3 V | | 0 | - | 15 | A |
| | Vo=5.0 V | | 0 | - | 12 | A |
| | Vo=12V | | 0 | - | 5 | A |
| Current Limit Threshold | Vo=1.5 V | | 28 | 34 | 40 | A |
| | Vo=1.8 V | | 24 | 28 | 34 | A |
| | Vo=2.5 V | | 22 | 26 | 30 | A |
| | Vo=3.3 V | | 19 | 22 | 26 | A |
| | Vo=5.0 V | | 14 | 19 | 24 | A |
| | Vo=12V | | 5.2 | 6.5 | 8.5 | A |
| Short Circuit Surge Transient | | | - | 0.5 | 1 | A2s |
| Ripple and Noise (rms) | Vo=1.5-1.8 V | | - | 6 | 12 | mV |
| | Vo=2.5 V | | - | 10 | 20 | mV |
| | Vo=3.3 V | | - | 12 | 25 | mV |
| | Vo=5.0 V | Tested at 0-20 MHz BW, with a 1 µF ceramic capacitor and a Tantalum capacitor (refer to the min. output capacitance below for each output) at the output. | - | 25 | 50 | mV |
| | Vo=12V | | - | 30 | 55 | mV |
| | Vo=1.5-1.8 V | | - | 40 | 70 | mV |
| | Vo=2.5 V | | - | 45 | 80 | mV |
| Ripple and Noise (pk-pk) | Vo=3.3 V | | - | 55 | 90 | mV |
| | Vo=5.0 V | | - | 70 | 120 | mV |
| | Vo=12V | | - | 90 | 180 | mV |
| Turn on Time | | | - | 35 | 70 | ms |
| Overshoot at Turn on | | | - | 0 | 5 | % |
| Output Capacitance | Vo=1.5 | | 470 | - | 15000 | µF |
| | Vo=1.8 V-2.5 V | | 470 | - | 10000 | µF |
| | Vo=3.3 V | Recommend to use AVX TPS series Tantalum capacitor as the min capacitor | 220 | - | 5600 | µF |
| | Vo=5.0 V | | 100 | - | 4700 | µF |
| | Vo=12V | | 22 | - | 470 | µF |

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**Transient Response**

| | | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|
| ΔV 25%~50% of Max Load | | - | 110 | 150 | mV |
| Settling Time | Vo=1.5 - 1.8 V | - | 110 | 180 | us |
| ΔV 50%~25% of Max Load | | - | 110 | 150 | mV |
| Settling Time | | - | 110 | 180 | us |
| ΔV 25%~50% of Max Load | | - | 150 | 250 | mV |
| Settling Time | Vo=2.5 - 3.3 V | - | 120 | 200 | us |
| ΔV 50%~25% of Max Load | Test conditions: di/dt = 0.1 A/µs, Vin=48 V, | - | 150 | 250 | mV |
| Settling Time | with a 1µF ceramic capacitor and a | - | 120 | 200 | us |
| ΔV 25%~50% of Max Load | Tantalum capacitor (refer to the min. | - | 220 | 350 | mV |
| Settling Time | output capacitance above for each output) | - | 120 | 250 | mV |
| ΔV 50%~25% of Max Load | Vo=5.0 V at the output. | - | 220 | 350 | mV |
| Settling Time | | - | 120 | 250 | mV |
| ΔV 25%~50% of Max Load | | - | 400 | 650 | mV |
| Settling Time | | - | 150 | 300 | mV |
| ΔV 50%~25% of Max Load | Vo=12 V | - | 400 | 650 | mV |
| Settling Time | | - | 150 | 300 | mV |

## 5. GENERAL SPECIFICATIONS

| PARAMETER | | DESCRIPTION | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| Efficiency | Vo=1.5 | Vin=48 V, full load. | 82 | 85 | - | % |
| | Vo=1.8 V-2.5 V | | 84 | 87 | - | % |
| | Vo=3.3 V | | 86 | 89 | - | % |
| | Vo=5.0 V | | 87 | 90 | - | % |
| | Vo=12V | | 86 | 89 | - | % |
| Switching Frequency | | | 540 | 600 | 660 | kHz |
| Isolation Capacitance | | | - | 3900 | - | pF |
| MTBF | | Calculated Per Bell Core SR-332 (IO =80% load, Vin=48 V, Vo=5 V; Ta = 25 °C) | | 2,770,832 | | hours |
| Output Voltage Trim Range | Vo=1.5 - 5.0 V | | 90 | - | 110 | % Vo |
| | Vo=12 V | | 80 | - | 110 | % Vo |
| Over Temperature Protection | | | 120 | - | 140 | °C |
| Over Voltage Protection | | Test conditions: Vin=48 V, full load and short the feedback optocoupler. | - | 130 | 160 | % Vo |
| Weight | | | - | 13 | - | g |
| Dimensions (L × W × H) | | SMT Package | 1.3 x 0.9 x 0.364 | | | in |
| | | | 33.02 x 22.86 x 9.24 | | | mm |
| | | Through Hole Package | 1.3 x 0.9 x 0.388 | | | in |
| | | | 33.02 x 22.86 x 9.85 | | | mm |

## 6. CONTROL SPECIFICATIONS

| PARAMETER | | DESCRIPTION | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| Signal Low (Unit On) | Active Low | When Remote On/Off pin is open, for active low option, unit is off; for active high option, unit is on | -0.3 | - | 0.8 | V |
| Signal High (Unit Off) | | | 2.95 | - | 18 | V |
| Signal Low (Unit Off) | Active High | | -0.3 | - | 0.8 | V |
| Signal High (Unit On) | | | 2.95 | - | 18 | V |
| Current Sink | | | 0 | - | 1 | mA |

## 7. EFFICIENCY DATA
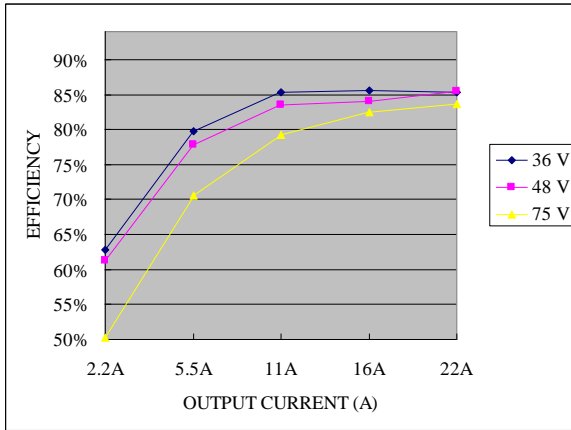


*Vo=1.5 V*
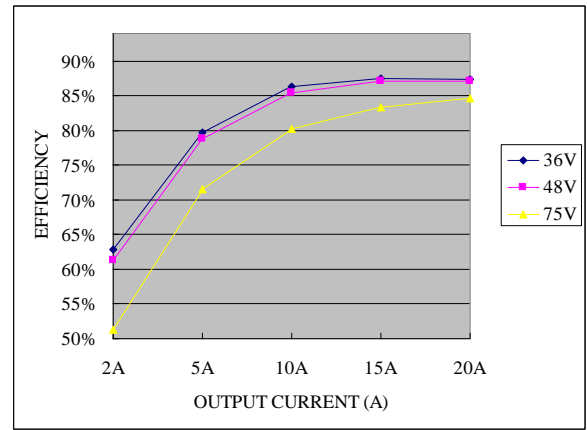


*Vo=1.8 V*
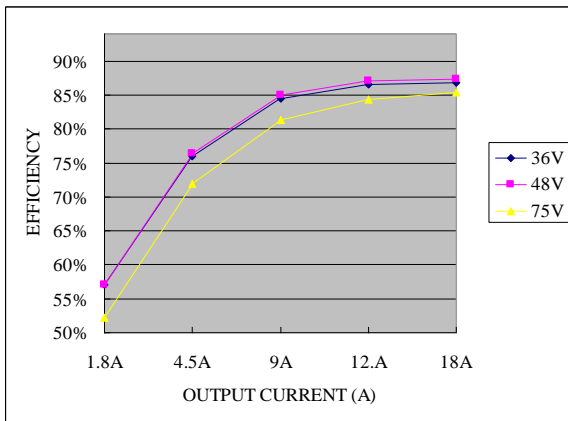


*Vo=2.5 V*
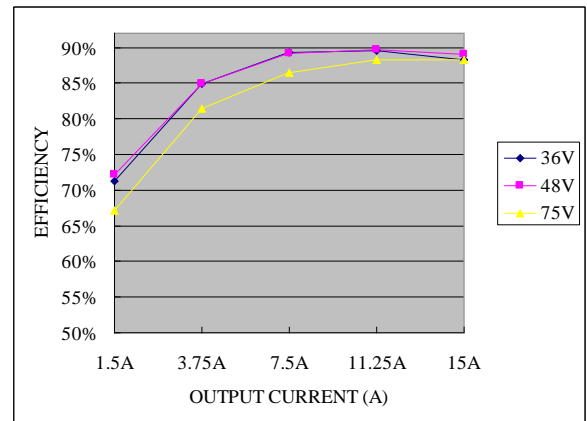


*Vo=3.3 V*
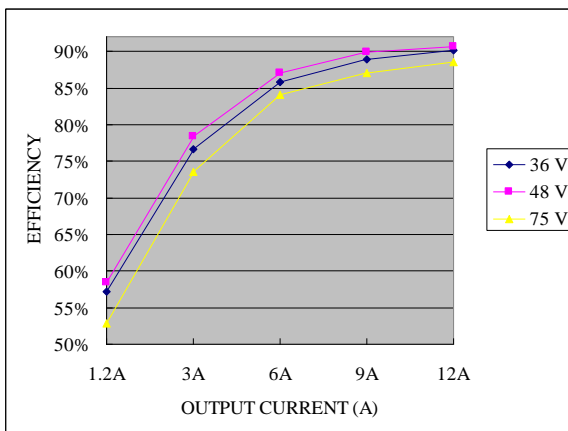


*Vo=5 V*
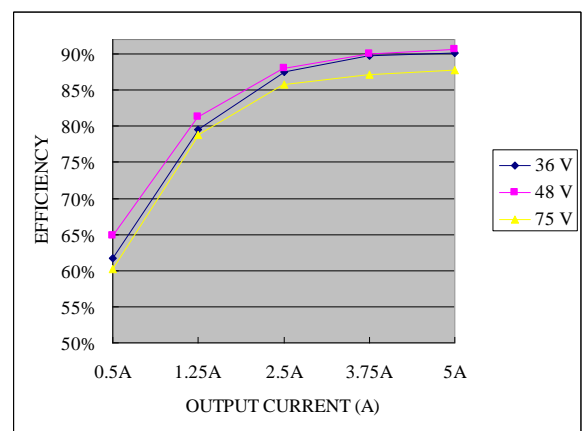


*Vo=12 V*

## 8. THERMAL DERATING CURVE
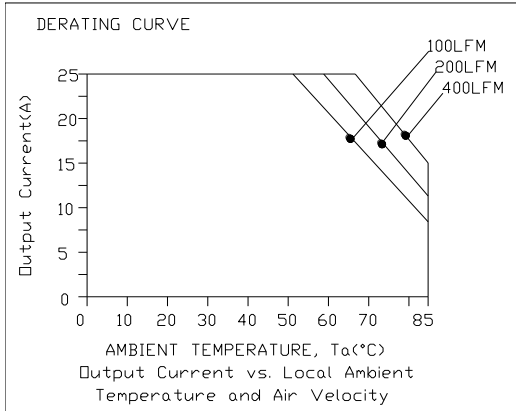


*Vin=36 V, Vo=1.5 V*
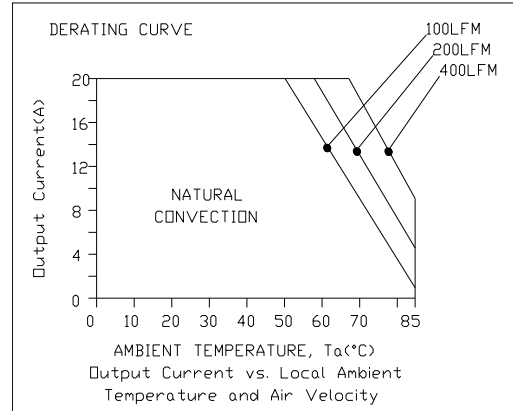


*Vin=36 V, Vo=1.8 V*
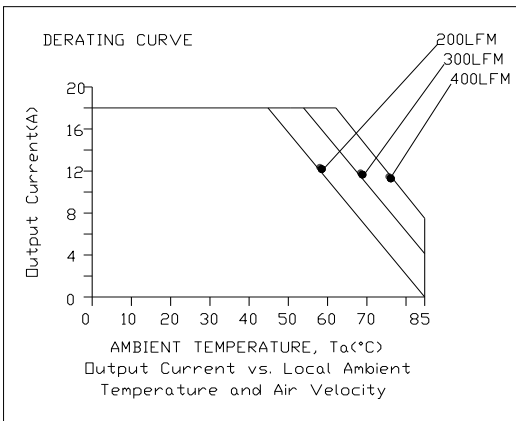


*Vin=36 V, Vo=2.5 V*
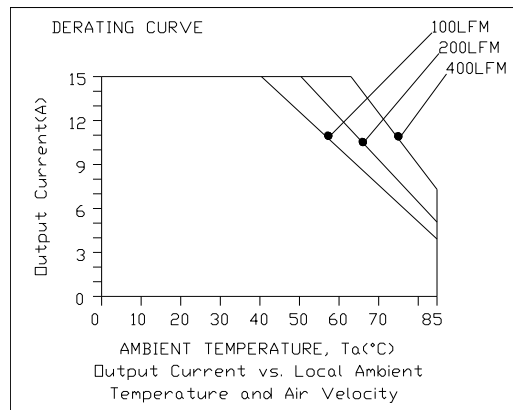


*Vin=36 V, Vo=3.3 V*
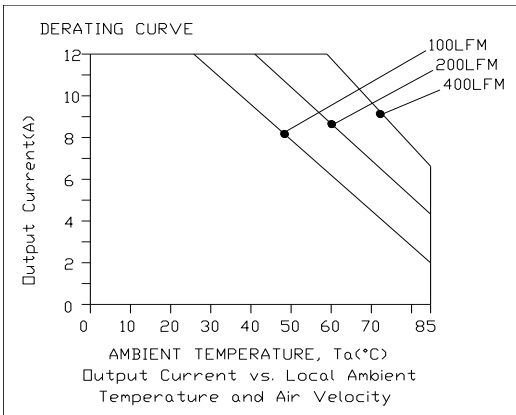


*Vin=36 V, Vo=5.0 V*



*Vin=36 V, Vo=12 V*

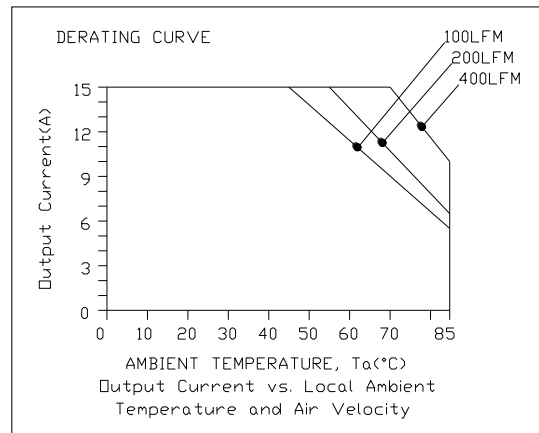tech.support@psbel.com
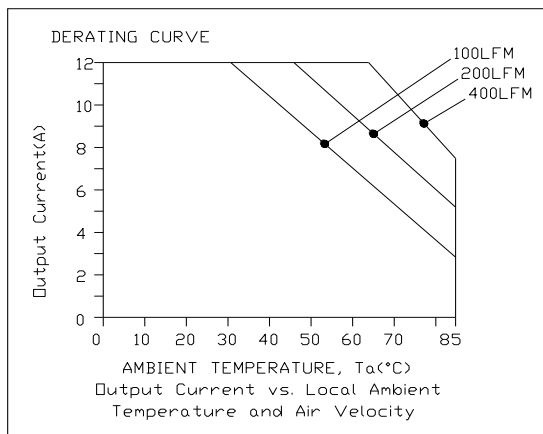**belfuse.com/power-solutions**
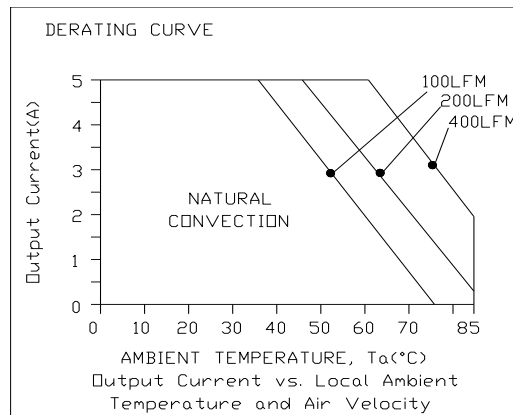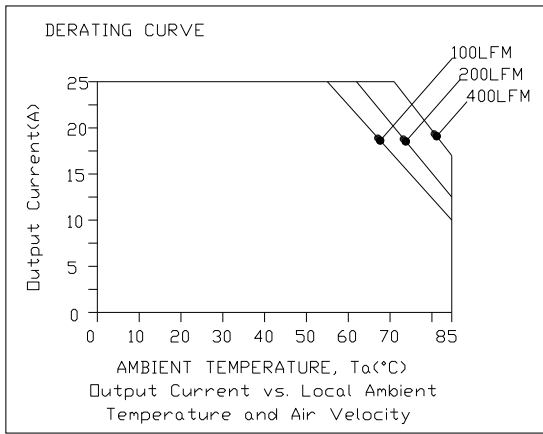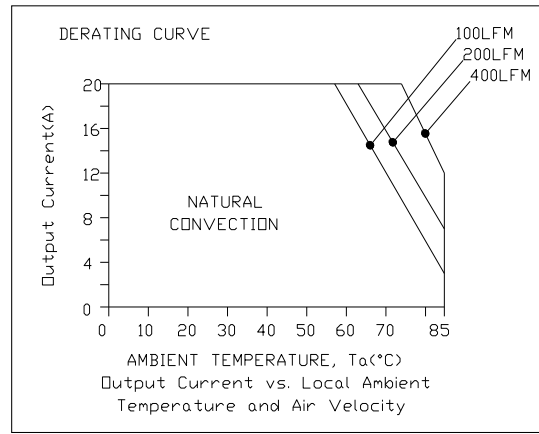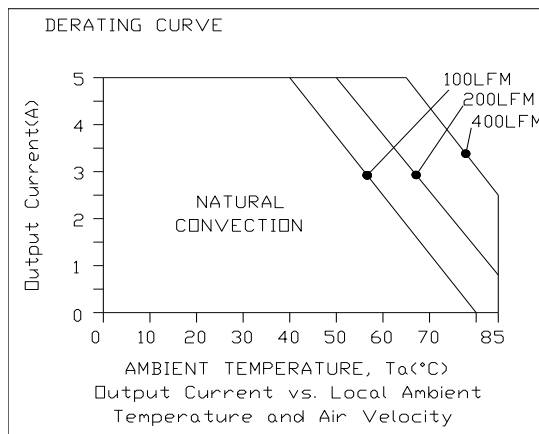
*Vin=48 V, Vo=1.5 V*

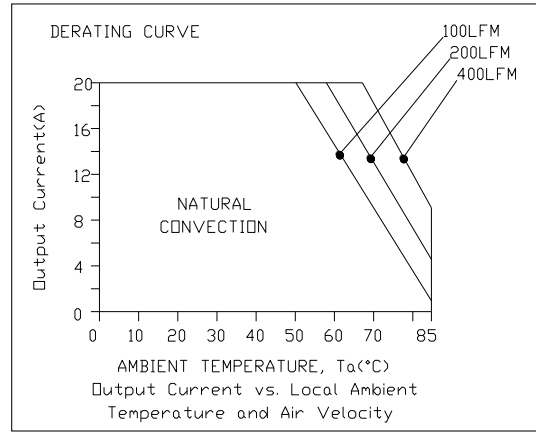*Vin=48 V, Vo=1.8 V*
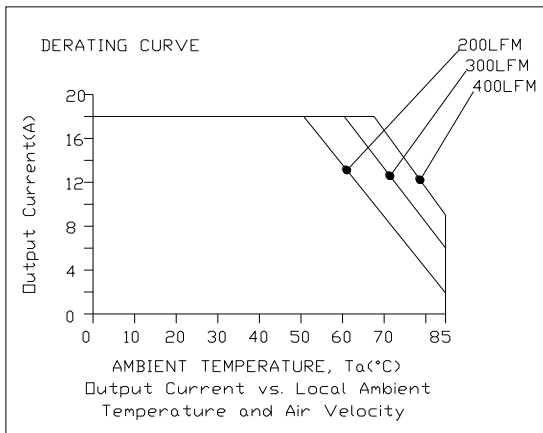
*Vin=48 V, Vo=2.5 V*
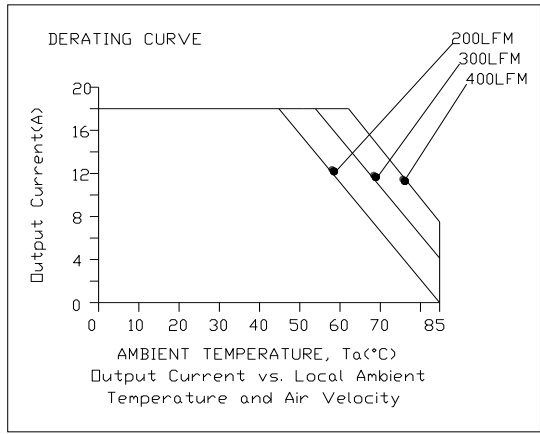
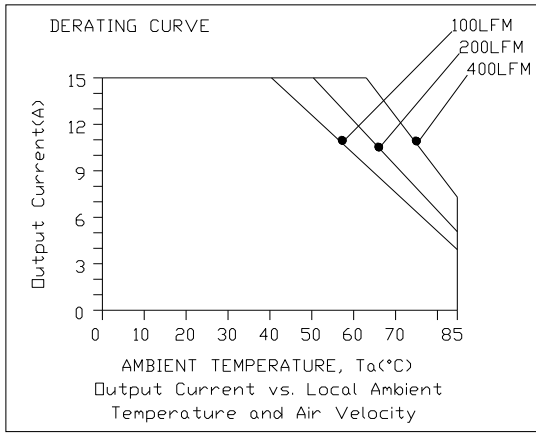*Vin=48 V, Vo=3.3 V*

*Vin=48 V, Vo=5.0 V*

*Vin=48 V, Vo=12 V*
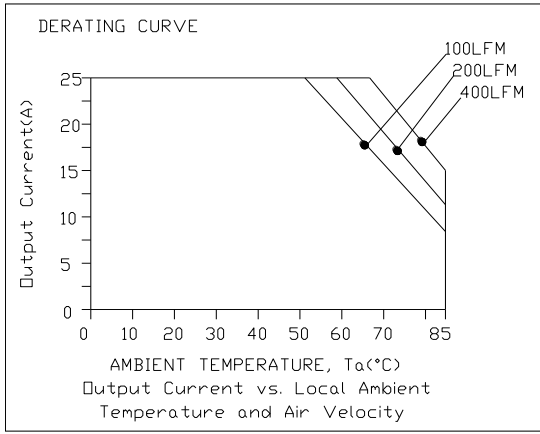
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DERATING CURVE

*Vin=75 V, Vo=1.5 V*

DERATING CURVE

NATURAL CONVECTION

*Vin=75 V, Vo=1.8 V*

DERATING CURVE

*Vin=75 V, Vo=2.5 V*

DERATING CURVE

*Vin=75 V, Vo=3.3 V*

DERATING CURVE

*Vin=75 V, Vo=5.0 V*

DERATING CURVE

NATURAL CONVECTION

*Vin=75 V, Vo=12 V*

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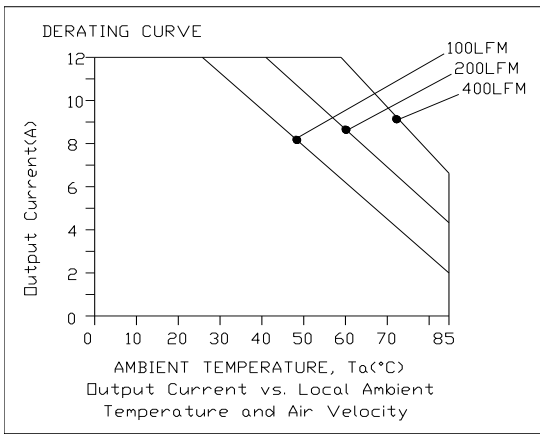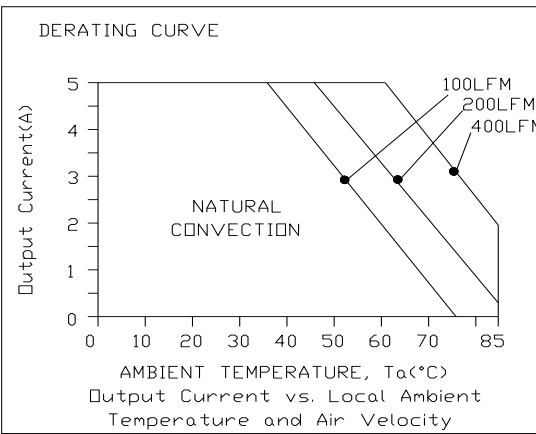
## 9. OUTPUT TRIM EQUATIONS

**Trim Resistor Calculate**

Equations for calculating the trim resistor are shown below (Unit: kΩ. The Trim Down resistor should be connected between the Trim pin and Ground pin. The Trim Up resistor should be connected between the Trim pin and the Vout. Only one of the resistors should be used for any given application.

$$Rtrimdown = \frac{511}{|delta|} - 10.22\,[k\Omega]$$

$$Rtrimup = \frac{(100 + delta) \cdot Vo \cdot 5.11 - 626}{1.225 \cdot delta} - 10.22\,[k\Omega]$$

**Note:**

$$delta = \frac{(Vo\_req - Vo)}{Vo} \times 100\,[\%]$$

Vo_req=Desired (trimmed) output voltage [V]

Vo=1.503 V for 1.5 V output; Vo=1.804 V for 1.8 V output; Vo=2.505 V for 2.5 V output; Vo=3.308 V for 3.3 V output; Vo=5.002 V for 5 V output; Vo=12.007 V for 12 V output.
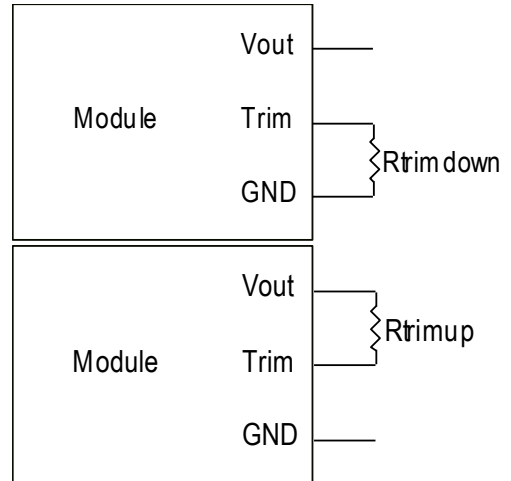
**Trim Voltage Calculate**

Equations for calculating the external trim voltage are shown below (Unit: V).
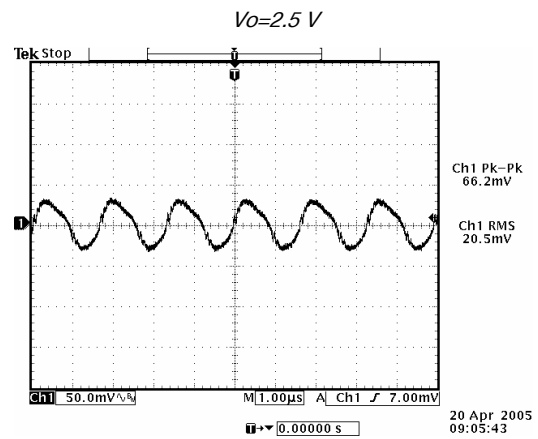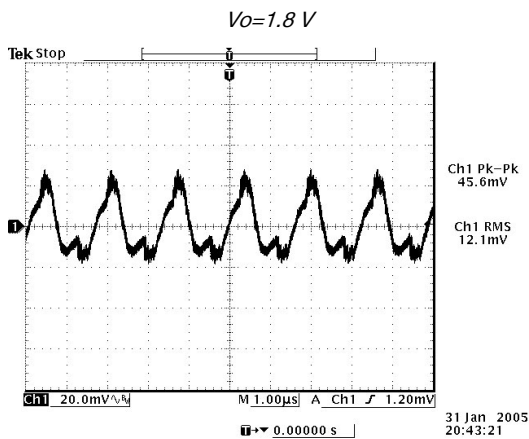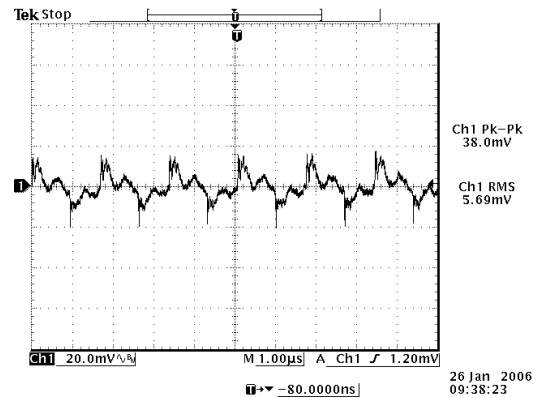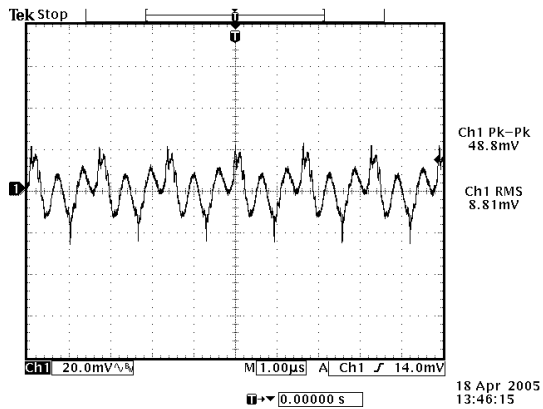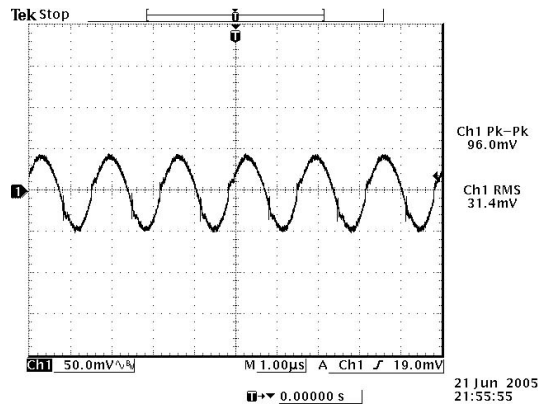
$$Vtrim = \frac{2.45}{Vo} \cdot Vo\_req - 1.225\,[V]$$
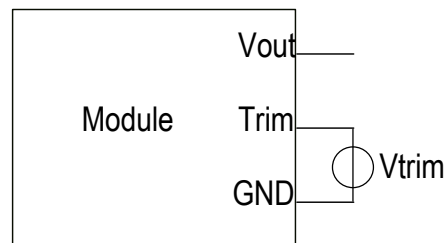
**Note:**

Vo_req=Desired (trimmed) output voltage [V]

Vo=1.503 V for 1.5 V output; Vo=1.804 V for 1.8 V output; Vo=2.505 V for 2.5 V output; Vo=3.308 V for 3.3 V output; Vo=5.002 V for 5 V output; Vo=12.007 V for 12 V output.

## 10. RIPPLE AND NOISE WAVEFORM

Ch1 Pk-Pk
48.8mV

Ch1 RMS
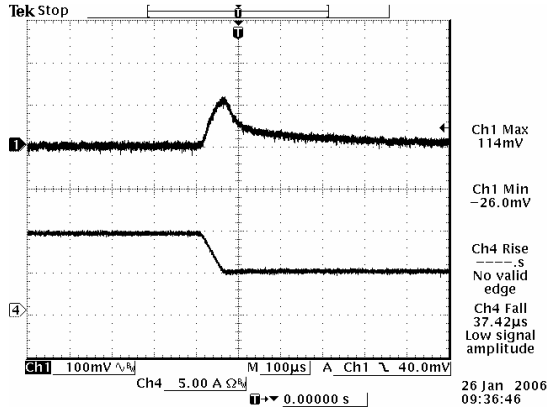8.81mV

Ch1 20.0mV   M 1.00µs   A Ch1 ∫ 14.0mV

18 Apr 2005
13:46:15

*Vo=1.8 V*

Ch1 Pk-Pk
38.0mV

Ch1 RMS
5.69mV

Ch1 20.0mV   M 1.00µs   A Ch1 ∫ 1.20mV

26 Jan 2006
09:38:23

*Vo=2.5 V*

Ch1 Pk-Pk
45.6mV

Ch1 RMS
12.1mV

Ch1 20.0mV   M 1.00µs   A Ch1 ∫ 1.20mV

31 Jan 2005
20:43:21

*Vo=3.3 V*

Ch1 Pk-Pk
66.2mV

Ch1 RMS
20.5mV

Ch1 50.0mV   M 1.00µs   A Ch1 ∫ 7.00mV

20 Apr 2005
09:05:43

*Vo=5.0 V*

Ch1 Pk-Pk
96.0mV

Ch1 RMS
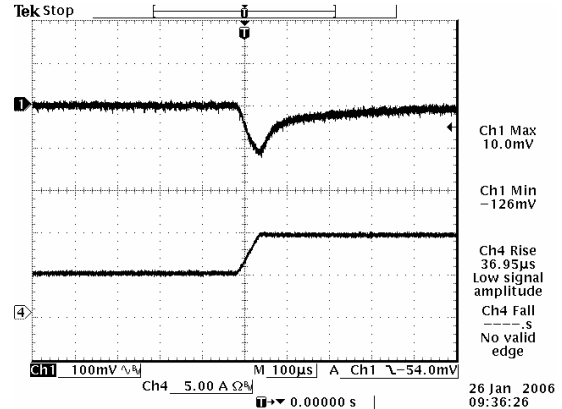31.4mV

Ch1 50.0mV   M 1.00µs   A Ch1 ∫ 19.0mV

21 Jun 2005
21:55:55

*Vo=12 V*

**Note:** *Ripple and Noise at full load, 48 V input, Ta=25 deg C.*
*1) For Vo=1.8 V -2.5 V, with a 1 uF ceramic capacitor and a 470 uF tantalum cap at the output;*
*2) For Vo=3.3 V, with a 1 uF ceramic capacitor and a 220 uF tantalum cap at the output;*
*3) For Vo=5.0 V, with a 1 uF ceramic capacitor and a 100 uF tantalum cap at the output;*
*4) For Vo=12 V, with a 1 uF ceramic capacitor and a 22 uF tantalum cap at the output.*

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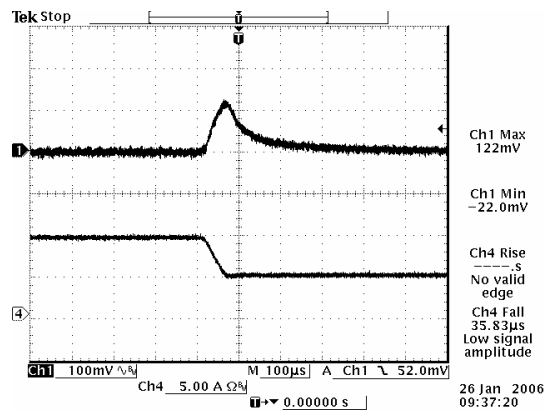**belfuse.com/power-solutions**
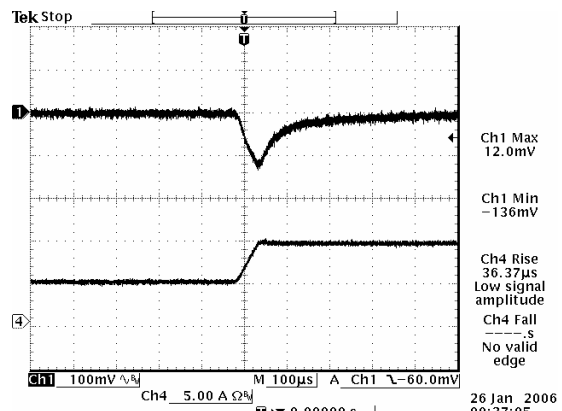
## 11. TRANSIENT RESPONSE WAVEFORMS



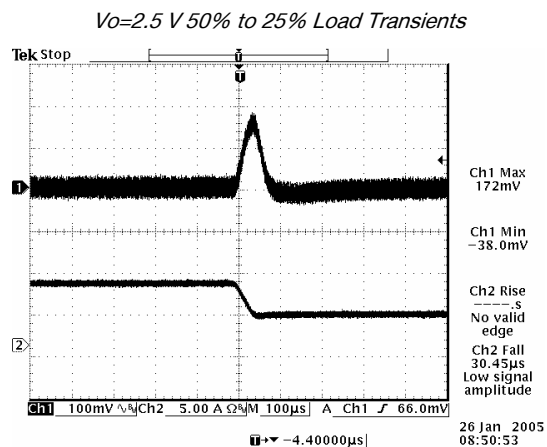*Vo=1.8 V 50% to 25% Load Transients*



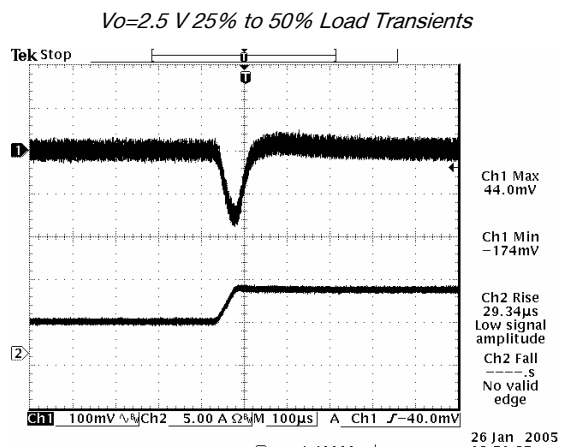*Vo=1.8 V 25% to 50% Load Transients*



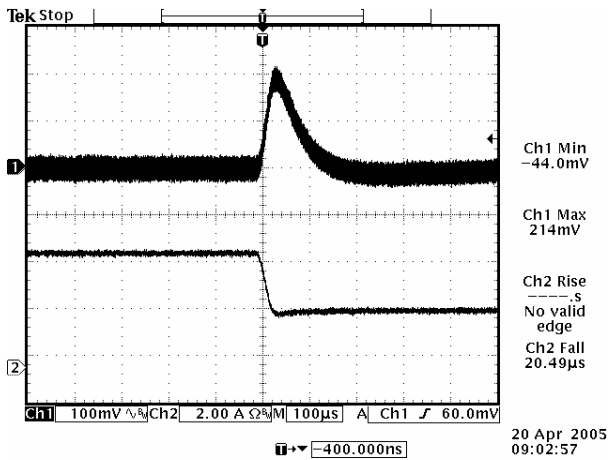*Vo=2.5 V 50% to 25% Load Transients*
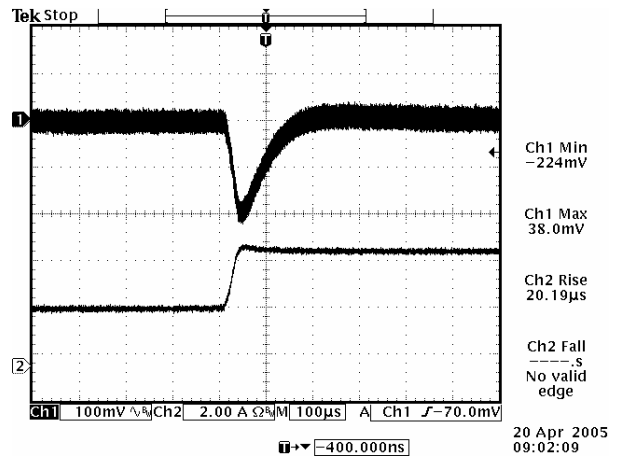


*Vo=2.5 V 25% to 50% Load Transients*



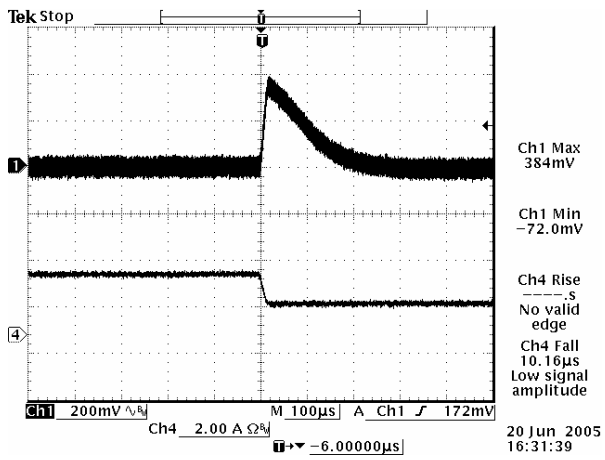*Vo=3.3 V 50% to 25% Load Transients*



*Vo=3.3 V 25% to 50% Load Transients*

*Vo=5 V 50% to 25% Load Transients*

*Vo=5 V 25% to 50% Load Transients*

*Vo=12 V 50% to 25% Load Transients*
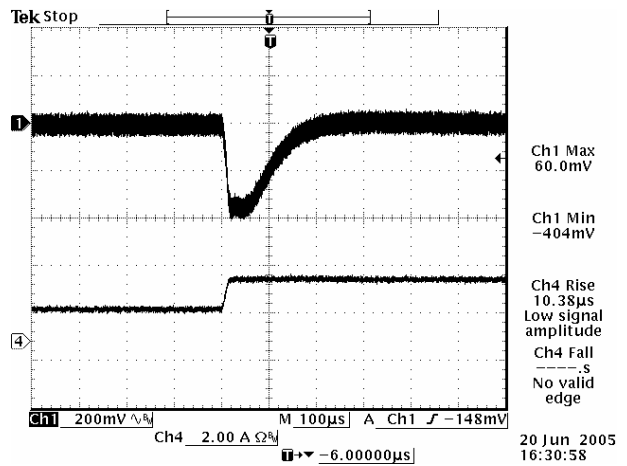
*Vo=12 V 25% to 50% Load Transients*

**Note:** *Transients Response at Vin=48 V, di/dt=0.1A/uS, Ta=25 deg C.*
*1) For Vo=1.8 V -2.5 V, with a 1 uF ceramic capacitor and a 470 uF tantalum cap at the output;*
*2) For Vo=3.3 V, with a 1 uF ceramic capacitor and a 220 uF tantalum cap at the output;*
*3) For Vo=5.0 V, with a 1 uF ceramic capacitor and a 100 uF tantalum cap at the output;*
*4) For Vo=12 V, with a 1 uF ceramic capacitor and a 22 uF tantalum cap at the output.*

## 12. SOLDERING INFORMATION

The SRSB-50Txxxy modules are designed to be compatible with reflow soldering process. The suggested Pb-free solder paste is Sn/Ag/Cu(SAC).  The recommended reflow profile using Sn/Ag/Cu solder is shown in the following. Recommended reflow peak temperature is 245℃ while the part can withstand peak temperature of 260℃ maximum for 10seconds. This profile should be used only as a guideline.  Many other factors influence the success of SMT reflow soldering.  Since your production environment may differ, please thoroughly review these guidelines with your process engineers.
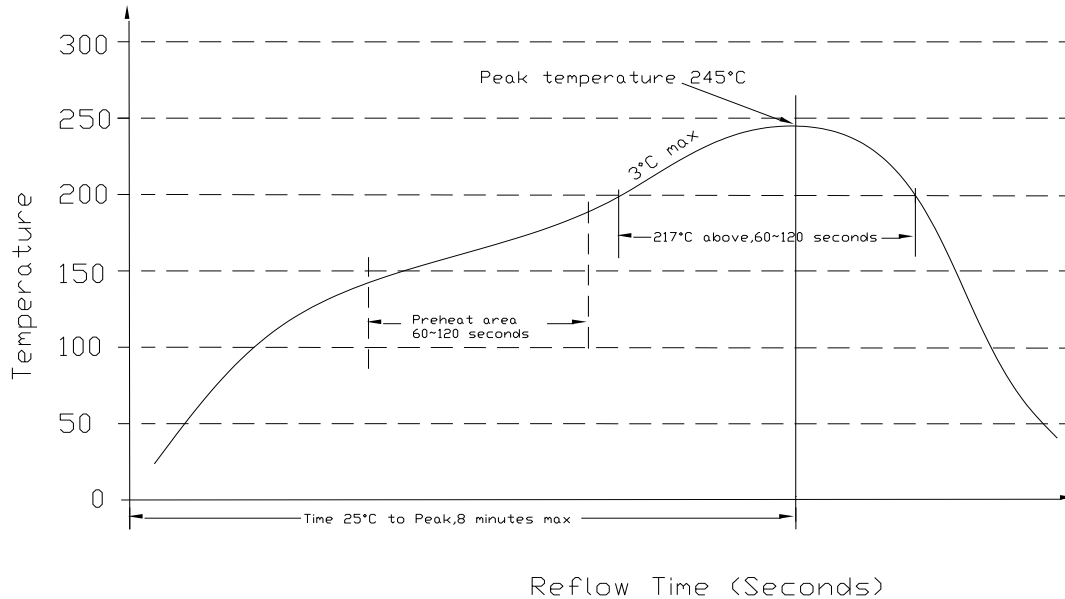


## 13. MSL RATING

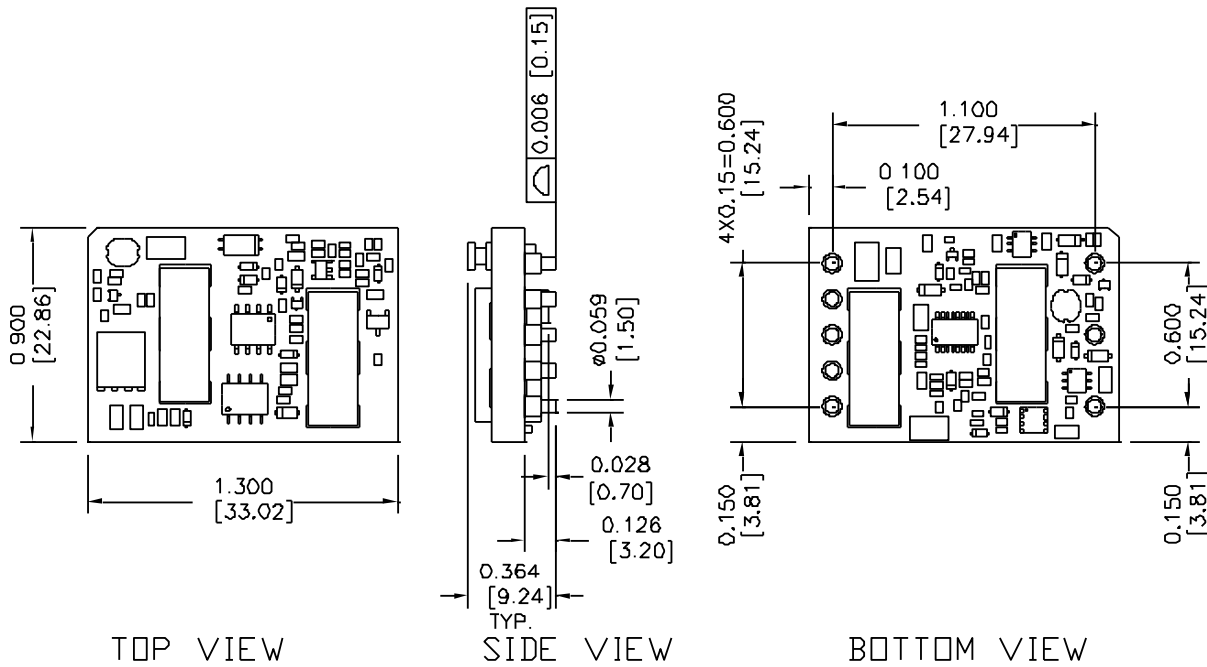The SRSB-50Txxxy modules have a MSL rating of 3.

## 14. STORAGE AND HANDLING

The SRSB-50Txxxy  modules are designed to be compatible with J-STD-033 Rev:A (Handling, Packing, Shipping and Use of Moisture /Reflow Sensitive surface Mount devices). Moisture barrier bags (MBB) with desiccant are applied.  The recommended storage environment and handling procedure is detailed in J-STD-033.

## 15. PRE-BAKING

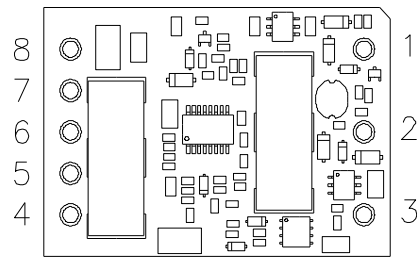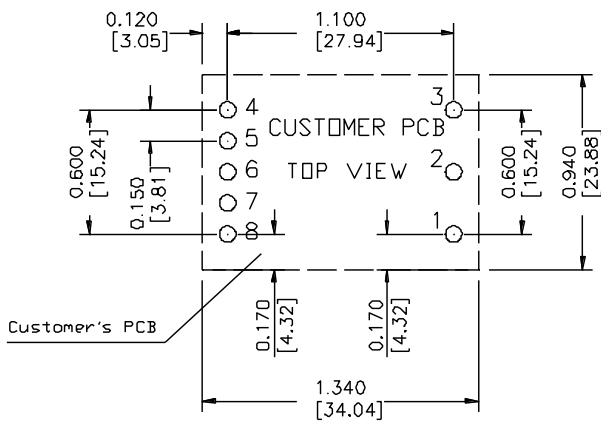This component has been designed, handled, and packaged ready for pb-free reflow soldering.  If the assembly shop follows J-STD-033 guidelines, no pre-bake of this component is required before being reflowed to a PCB.  However, if the J-STD-033 guidelines are not followed by the assembler, Bel recommends that the modules should be pre-baked @ 120~125℃ for a minimum of 4 hours (preferably 24 hours) before reflow soldering.

## 16. MECHANICAL DIMENSIONS

**SRSB-50TxxxG/H**

TOP VIEW   SIDE VIEW   BOTTOM VIEW

RECOMMENDED PCB PAD LAYOUT

CUSTOMER PCB
TOP VIEW

Customer's PCB

Recommended Surface Mount Pads
Min. Ø0.080" [2.03]
Max. Ø0.092" [2.34]

### PIN CONNECTIONS

| PIN | FUNCTION |
|---|---|
| 1 | Vin (+) |
| 2 | Remote On/Off |
| 3 | Vin (-) |
| 4 | Vout- |
| 5 | SENSE(-) |
| 6 | TRIM |
| 7 | SENSE(+) |
| 8 | Vout(+) |

**Note:**
1) All Pins: Material - Copper Alloy;
        Finish – 3 micro inches minimum Gold over 50 micro inches minimum Nickel plate.
2) Undimensioned components are shown for visual reference only.
3) All dimensions in inches; Tolerances: x.xx +/-0.02[0.50], x.xxx +/-0.010[0.25] unless otherwise stated

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## SRSB-50TxxxR/S

TOP VIEW

SIDE VIEW

BOTTOM VIEW

RECOMMENDED PCB PAD LAYOUT

UNIT: INCH [mm]

BOTTOM VIEW

CUSTOMER PCB TOP VIEW

Recommended Surface Mount Pads
Min. Ø0.080" [2.03]
Max. Ø0.092" [2.34]

### PIN CONNECTIONS

| PIN | FUNCTION |
|-----|----------|
| 1 | Vin (+) |
| 2 | Remote On/Off |
| 3 | Vin (-) |
| 4 | Vout- |
| 5 | SENSE(-) |
| 6 | TRIM |
| 7 | SENSE(+) |
| 8 | Vout(+) |

**Note:** These parts are not however compatible with the higher temperatures associated with lead free solder processes and must be soldered using a reflow profile with a peak temperature of no more than 245 °C.

**Note:**
1) All Pins: Material - Copper Alloy;
Finish – 3 micro inches minimum Gold over 50 micro inches minimum Nickel plate.
2) Undimensioned components are shown for visual reference only.
3) All dimensions in inches; Tolerances: x.xx +/-0.02 in. x.xxx +/-0.010 in. unless otherwise stated.

**0RSB-50TxxxG/H**



TOP VIEW

SIDE VIEW

BOTTOM VIEW

UNIT:INCH [mm]

RECOMMENDED PCB PAD LAYOUT

CUSTOMER PCB
TOP VIEW

HOLE SIZE: 1-3, 5-7 Ø0.047[1.19],
4,8 Ø0.07 [1.78]
PAD SIZE: 1-3, 5-7 Ø0.08[2.03]
4,8 Ø0.10 [2.54]

BOTTOM VIEW

**PIN CONNECTIONS**

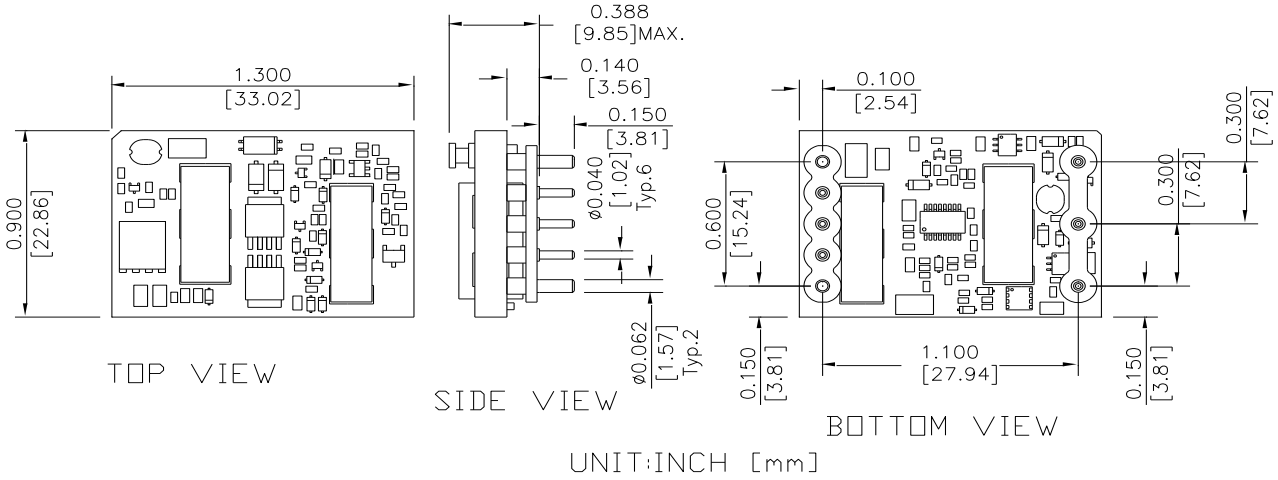| PIN | FUNCTION |
|-----|----------|
| 1 | Vin (+) |
| 2 | Remote On/Off |
| 3 | Vin (-) |
| 4 | Vout- |
| 5 | SENSE(-) |
| 6 | TRIM |
| 7 | SENSE(+) |
| 8 | Vout(+) |

**Note:** These parts are not however compatible with the higher temperatures associated with lead free solder processes and must be soldered using a reflow profile with a peak temperature of no more than 245 °C.

**Note:**
1) All Pins: Material - Copper Alloy;
    Finish – 3 micro inches minimum Gold over 50 micro inches minimum Nickel plate.
2) Undimensioned components are shown for visual reference only.
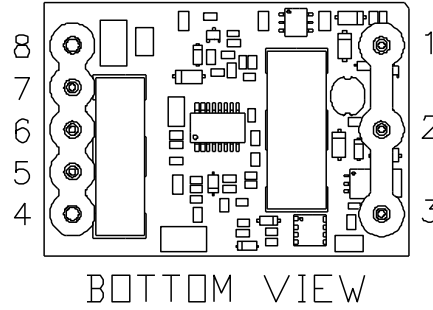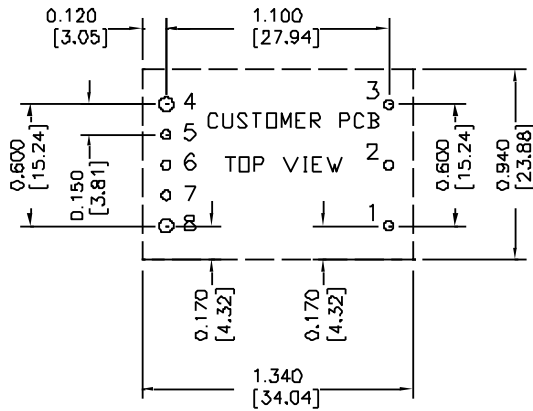3) All dimensions in inches; Tolerances: x.xx +/-0.02 in. x.xxx +/-0.010 in. unless otherwise stated.

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## 17. PACKAGING INFORMATION

**SRSB-50TxxxR/S**
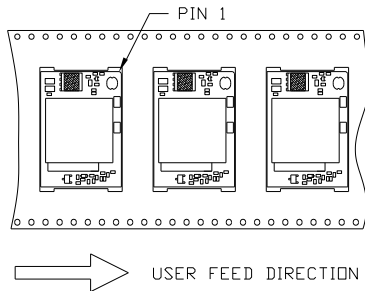


| TAPE WIDTH | 56mm |
|---|---|
| POCKET PITCH | 32mm |
| QUANTITY OF COMPONENTS PER REEL | 160 |
| PLASTIC REEL OUTER DIAMETER | 13 INCHES |
| PLASTIC REEL HUB DIAMETER | 4 INCHES |
| COMPLY WITH EIA 481-2-A | |

Asia-Pacific
+86 755 298 85888

Europe, Middle East
+353 61 225 977

North America
+1 408 785 5200

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**xRSB-50TxxxG/H**

PS COVER
P/N: 0200-1700-48

PE FOAM
P/N : 0200-1700-11

PRODUCT : SRSB-50T03/05/12

TRAY
P/N: 0200-1700-79

1 BAGS OF SILICA GEL
P/N : 0036-0010-03

1 PCS HUMIDITY INDICATING CARD
P/N : 0200A0114-02

MOISTURE BARRIER BAG
P/N : 0200-0143-02

PRODUCT LABEL
P/N: 0080-1221-G2

bel POWER SOLUTIONS & PROTECTION
CUSTOMER PART No : XXXXXXXXXX
BEL FUSE PART NO. XXXX-XXXXXXX
CTM AVL PN      XXXX-XXXXXXX
QUANTITY        XXX PCS
SO# XXXXXX
DATE CODE : XXXX
LOT NO. : XXXXXXXXXX
PACKAGE DATE : XX/XX/XXXX
RoHS
MSL3

VACUUM SEALED

PRODUCT IS PUT INTO THE TRAY          PIN 1

8.40 [213.36]

0200-1700-79

10.40 [264.16]

## REVISION HISTORY

| DATE | REVISION | CHANGES DETAIL | APPROVAL |
|------|----------|----------------|----------|
| 2010-04-12 | F | Update the 0RSB-50T series product height from 0.378'' to 0.388''. | Jack Fan |
| 2010-11-17 | G | Add Derating Curve under 36Vin, 75Vin at 12V output. | JZ Wang |
| 2011-05-17 | H | Add trim equation for external voltage trim. | JZ Wang |
| 2011-08-25 | I | Update the reflow solder temperature. | HL |
| 2011-11-01 | J | Add thermal derating curve for 36Vin and 75Vin. | JZ Wang |
| 2012-07-04 | K | Adding the 7C-III compliance suffix statement. | JZ Wang |
| 2016-09-12 | AL | Update form. | Jessica Yan |
| 2017-03-03 | AM | Update part number explanation, mechanical dimensions, packaging information | Jessica Yan |
| | | | |

## For more information on these products consult: tech.support@psbel.com

**NUCLEAR AND MEDICAL APPLICATIONS** - Products are not designed or intended for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems.
**TECHNICAL REVISIONS** - The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.

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