

DBR-1F SERIES, 1WATT, 3KVDC, REGULATED

FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Fully regulated with low ripple and noise
- ✓ Dual output models
- ✓ Continuous short circuit protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



| Model | Input voltage (Vdc) | Output voltage (Vdc) | Output current (mA) | | Efficiency Typ. |
|------------|---------------------|----------------------|---------------------|------|-----------------|
| | | | Min. | Max. | |
| DBR1-0521F | 5(4.75~5.25) | ±5 | 10 | 100 | 54% |
| DBR1-0522F | | ±9 | 5.5 | 55 | 63% |
| DBR1-0523F | | ±12 | 4 | 40 | 63% |
| DBR1-0524F | | ±15 | 3.3 | 33 | 65% |
| DBR1-0525F | | ±24 | 2.1 | 21 | 62% |
| DBR1-1221F | 12(11.4~12.6) | ±5 | 10 | 100 | 56% |
| DBR1-1222F | | ±9 | 5.5 | 55 | 62% |
| DBR1-1223F | | ±12 | 4 | 40 | 65% |
| DBR1-1224F | | ±15 | 3.3 | 33 | 66% |
| DBR1-1225F | | ±24 | 2.1 | 21 | 62% |
| DBR1-2421F | 24(22.8~25.2) | ±5 | 10 | 100 | 54% |
| DBR1-2422F | | ±9 | 5.5 | 55 | 62% |
| DBR1-2423F | | ±12 | 4 | 40 | 64% |
| DBR1-2424F | | ±15 | 3.3 | 33 | 66% |
| DBR1-2425F | | ±24 | 2.1 | 21 | 62% |

Notes: other input and output models may available on request.

ELECTRICAL

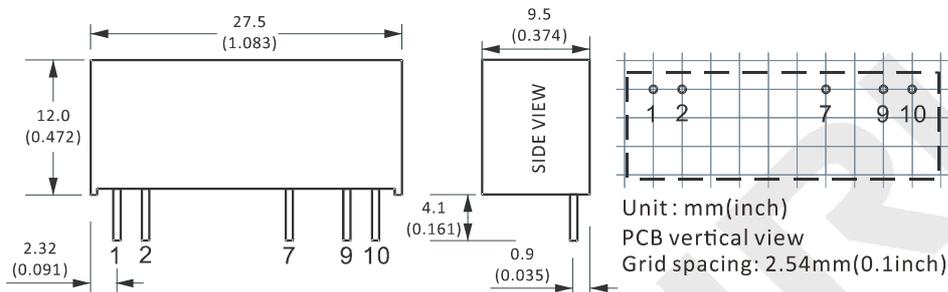
| | | |
|-----------------------------|----------------------|-------------------------------------|
| Line regulation | --- | ±0.25% |
| Load regulation | 10% ~ 100% full load | ±1% |
| Ripple and noise | --- | 100mVp-p max. |
| Isolation voltage | --- | 3000Vdc |
| Short circuit protection | --- | Continuous short circuit protection |
| Operating temperature range | --- | -40°C to +85°C |
| MTBF | --- | 3500KHrs |
| Weight | --- | 4.5g |

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ELECTRICAL

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



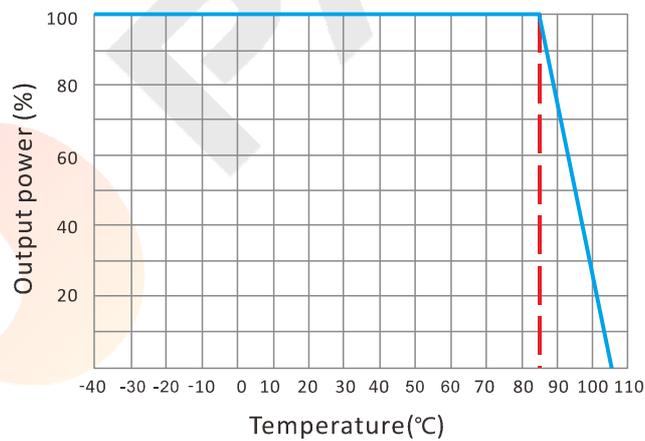
CONNECTION

| PIN # | DUAL |
|-------|------|
| 1 | +Vin |
| 2 | GND |
| 7 | +Vo |
| 9 | -Vo |
| 10 | 0V |

Note:

* Unit is mm(inch).

ELECTRICAL CURVE



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NOTES
RECOMMENDED TEST AND APPLICATION CIRCUIT

CAPACITOR SELECTION

| INPUT VOLTAGE | C1 | OUTPUT VOLTAGE | C2 |
|---------------|--------------|----------------|--------------|
| 5VDC | 4.7 μ F | \pm 5VDC | 4.7 μ F |
| 12VDC | 2.2 μ F | \pm 9VDC | 2.2 μ F |
| 24VDC | 0.47 μ F | \pm 12VDC | 1.0 μ F |
| -- | -- | \pm 15VDC | 0.47 μ F |
| -- | -- | \pm 24VDC | 0.47 μ F |