



RB Stock Resistors



RoHS COMPLIANT










| WHERE TO FIND RB STOCK RESISTORS  |
|---|
| 1. Navigate to <a href="http://www.vishay.com/ref/buynow">www.vishay.com/ref/buynow</a> |
| 2a. Enter a valid Vishay part number (example: RBEF030010R00KFB00)                      |
| 2b. Enter a partial Vishay part number (example: RBEF0300)                              |

RBEF AND RBSF STOCK RESISTORS

Popular sizes of ribwound (RB) style resistors are in stock by authorized distributors for immediate shipment.

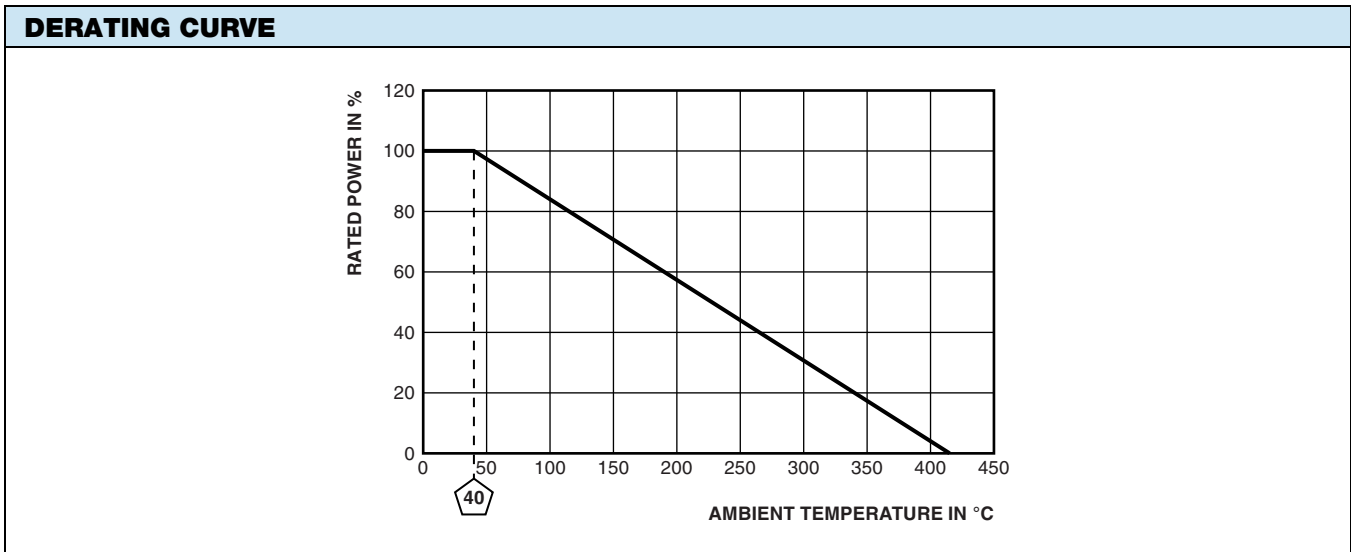
| RESISTANCE (Ω) | 300 W              | 500 W              | 1000 W             | 1500 W             |
|----------------|--------------------|--------------------|--------------------|--------------------|
| 0.1            | RBEF0300R1000KFB00 | RBSF0500R1000KGB00 | not stocked        | not stocked        |
| 0.15           | RBEF0300R1500KFB00 | not stocked        | not stocked        | not stocked        |
| 0.2            | RBEF0300R2000KFB00 | not stocked        | not stocked        | not stocked        |
| 0.25           | RBEF0300R2500KFB00 | RBSF0500R2500KGB00 | RBSF1000R2500KGB00 | RBSF1500R2500KGB00 |
| 0.375          | RBEF0300R3750KFB00 | not stocked        | not stocked        | not stocked        |
| 0.5            | RBEF0300R5000KFB00 | RBSF0500R5000KGB00 | RBSF1000R5000KGB00 | RBSF1500R5000KGB00 |
| 0.6            | RBEF0300R6000KFB00 | not stocked        | not stocked        | not stocked        |
| 0.75           | RBEF0300R7500KFB00 | RBSF0500R7500KGB00 | RBSF1000R7500KGB00 | RBSF1500R7500KGB00 |
| 1              | RBEF03001R000KFB00 | RBSF05001R000KGB00 | RBSF10001R000KGB00 | RBSF15001R000KGB00 |
| 1.25           | RBEF03001R250KFB00 | not stocked        | not stocked        | not stocked        |
| 1.5            | RBEF03001R500KFB00 | not stocked        | not stocked        | not stocked        |
| 2              | RBEF03002R000KFB00 | not stocked        | not stocked        | RBSF15002R000KGB00 |
| 2.5            | RBEF03002R500KFB00 | RBSF05002R500KGB00 | RBSF10002R500KGB00 | RBSF15002R500KGB00 |
| 3              | RBEF03003R000KFB00 | not stocked        | not stocked        | not stocked        |
| 4              | RBEF03004R000KFB00 | not stocked        | not stocked        | not stocked        |
| 5              | RBEF03005R000KFB00 | RBSF05005R000KGB00 | RBSF10005R000KGB00 | RBSF15005R000KGB00 |
| 6              | RBEF03006R000KFB00 | not stocked        | not stocked        | not stocked        |
| 8              | RBEF03008R000KFB00 | not stocked        | not stocked        | RBSF15008R000KGB00 |
| 10             | RBEF030010R00KFB00 | RBSF050010R00KGB00 | RBSF100010R00KGB00 | RBSF150010R00KGB00 |
| 12             | RBEF030012R00KFB00 | not stocked        | not stocked        | not stocked        |
| 15             | RBEF030015R00KFB00 | not stocked        | not stocked        | not stocked        |
| 16             | RBEF030016R00KFB00 | not stocked        | not stocked        | not stocked        |
| 20             | RBEF030020R00KFB00 | not stocked        | not stocked        | not stocked        |
| 25             | RBEF030025R00KFB00 | RBSF050025R00KGB00 | RBSF100025R00KGB00 | RBSF150025R00KGB00 |
| 30             | RBEF030030R00KFB00 | not stocked        | not stocked        | not stocked        |
| 33             | RBEF030033R00KFB00 | not stocked        | not stocked        | not stocked        |
| 40             | RBEF030040R00KFB00 | not stocked        | not stocked        | not stocked        |
| 50             | RBEF030050R00KFB00 | RBSF050050R00KGB00 | RBSF100050R00KGB00 | RBSF150050R00KGB00 |
| 60             | RBEF030060R00KFB00 | not stocked        | not stocked        | not stocked        |
| 70             | RBEF030070R00KFB00 | not stocked        | not stocked        | not stocked        |
| 75             | not stocked        | RBSF050075R00KGB00 | RBSF100075R00KGB00 | RBSF150075R00KGB00 |
| 80             | RBEF030080R00KFB00 | not stocked        | not stocked        | not stocked        |
| 100            | RBEF0300100R0KFB00 | RBSF0500100R0KGB00 | RBSF1000100R0KGB00 | RBSF1500100R0KGB00 |
| 120            | RBEF0300120R0KFB00 | not stocked        | not stocked        | not stocked        |
| 125            | RBEF0300125R0KFB00 | not stocked        | not stocked        | not stocked        |



| <b>CUSTOM OPTIONS: RBEF AND RBSF STOCK RESISTORS</b>  |   |   |  |  |  |
|---|---|---|--|--|--|
| Stock resistors are available with many different mounting options to meet application specific requirements. |   |   |  |  |  |
| OPTIONS   | EXAMPLE PHOTO   | 300 W   | 500 W  | 1000 W   | 1500 W   |
| Standard "00" option  |    | Part number ends with " <b>00</b> "<br>example:<br>RBEF0300xxxxxKFB <b>00</b>   | Part number ends with " <b>00</b> "<br>example:<br>RBSF0500xxxxxKGB <b>00</b>    | Part number ends with " <b>00</b> "<br>example:<br>RBSF1000xxxxxKGB <b>00</b>    | Part number ends with " <b>00</b> "<br>example:<br>RBSF1500xxxxxKGB <b>00</b>    |
| 1 High Bracket "1A" option  |    | Part number ends with " <b>1A</b> "<br>example:<br>RBEF0300xxxxxKFB <b>1A</b>   | Part number ends with " <b>1A</b> "<br>example:<br>RBSF0500xxxxxKGB <b>1A</b>    | Part number ends with " <b>1A</b> "<br>example:<br>RBSF1000xxxxxKGB <b>1A</b>    | Part number ends with " <b>1A</b> "<br>example:<br>RBSF1500xxxxxKGB <b>1A</b>    |
| 2 High Bracket "2A" option  |    | Part number ends with " <b>2A</b> "<br>example:<br>RBEF0300xxxxxKFB <b>2A</b>   | Part number ends with " <b>2A</b> "<br>example:<br>RBSF0500xxxxxKGB <b>2A</b>    | <i>not available</i>   | <i>not available</i>   |
| 3 High Bracket "3A" option  |    | Part number ends with " <b>3A</b> "<br>example:<br>RBEF0300xxxxxKFB <b>3A</b>   | <i>not available</i>   | <i>not available</i>   | <i>not available</i>   |
| 4 High Bracket "4A" option  |    | Part number ends with " <b>4A</b> "<br>example:<br>RBEF0300xxxxxKFB <b>4A</b>   | <i>not available</i>   | <i>not available</i>   | <i>not available</i>   |
| Thru Bolt "VT" option   |  | Part number ends with " <b>VT</b> "<br>example:<br>RBEF0300xxxxxKFB <b>VT</b>   | Part number ends with " <b>VT</b> "<br>example:<br>RBSF0500xxxxxKGB <b>VT</b>    | Part number ends with " <b>VT</b> "<br>example:<br>RBSF1000xxxxxKGB <b>VT</b>    | Part number ends with " <b>VT</b> "<br>example:<br>RBSF1500xxxxxKGB <b>VT</b>    |
| Clips "CP" option   |  | Part number ends with " <b>CP</b> "<br>example:<br>RBEF0300xxxxxKFB <b>CP</b>   | <i>not available</i>   | <i>not available</i>   | <i>not available</i>   |
| Enclosures  |  | Consult factory for options: <a href="mailto:vishaymilwaukeeresistor@vishay.com">vishaymilwaukeeresistor@vishay.com</a> |  |  |  |
| Adjustable  |  | Part model starts with " <b>RBEA</b> "<br>example:<br><b>RBEA</b> 0300xxxxxKFB00  | Part model starts with " <b>RBSA</b> "<br>example:<br><b>RBSA</b> 0500xxxxxKGB00 | Part model starts with " <b>RBSA</b> "<br>example:<br><b>RBSA</b> 1000xxxxxKGB00 | Part model starts with " <b>RBSA</b> "<br>example:<br><b>RBSA</b> 1500xxxxxKGB00 |



| TECHNICAL SPECIFICATIONS    |                     |  |
|-----------------------------|---------------------|--|
| PARAMETER                   | UNIT                | STOCK RESISTOR CHARACTERISTICS   |
| Power rating                | W                   | 300 to 1500  |
| Resistance range            | $\Omega$            | 0.1 to 125   |
| Resistance tolerance        | %                   | 10   |
| TCR                         | ppm/ $^{\circ}$ C   | $\pm 400, \pm 180, \pm 130, \pm 20$ (varies by wattage and resistance) |
| Operating temperature       | $^{\circ}$ C        | -55 to +415  |
| Temperature rise            | $^{\circ}$ C        | 375 above an ambient of 40 $^{\circ}$ C                                |
| Maximum altitude            | f.a.s.l. (m.a.s.l.) | derate above 4921 f.a.s.l. (1500 m.a.s.l.)                             |
| Short-term overload (surge) |                     | 10 x rated power for 5 s   |
| Maximum working voltage     |                     | $(P \times R)^{1/2}$   |
| Insulation resistance       | $\Omega$            | 1M   |
| Dielectric voltage          | V <sub>RMS</sub>    | Standard 650 V. Up to 1500 V upon request.                             |
| Creepage                    | inch (mm)           | minimum 0.125 (3.175), typical (varies by wattage)                     |
| Terminal sleeves            |                     | n/a  |
| Inductance                  | $\mu$ H             | 0.1 to 340 (varies by wattage and resistance)                          |
| Terminal strength           | lb                  | 10   |



| DATASHEET LINKS                         |  |
|---|--|
| RBEF, RBSF Series Fixed Resistors:      | <a href="http://www.vishay.com/doc?31807">www.vishay.com/doc?31807</a> |
| RBEA, RBSA Series Adjustable Resistors: | <a href="http://www.vishay.com/doc?31809">www.vishay.com/doc?31809</a> |
| CS61 Series Customer Special Resistors: | <a href="http://www.vishay.com/doc?31856">www.vishay.com/doc?31856</a> |
| Mounting Hardware Information:          | <a href="http://www.vishay.com/doc?31811">www.vishay.com/doc?31811</a> |