RD-404 is a logic control resistor designed for SR series resistor tunable filters. The setting of cutoff (center) frequency under digital signals is enabled if RD-404 resistor is used in combination with SR series.

### Absolute maximum ratings
- **Supply voltage**: ±18V
- **Input voltage**: ±1V
- **Control voltage**: ±0.5V

### Frequency setting mode
- **Mode**: BCD 1 digit (0 to 15)
  - BCD 1 digit + 1 (1 to 16, specified pin short: 0, 3, 6, 9, 12, 15)

### Frequency setting range

<table>
<thead>
<tr>
<th>SR type</th>
<th>Type 1</th>
<th>Type 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD-404D1</td>
<td>BCD</td>
<td>BCD+1</td>
</tr>
<tr>
<td>Min.</td>
<td>0Hz*</td>
<td>10Hz</td>
</tr>
<tr>
<td>Max.</td>
<td>150Hz</td>
<td>160Hz</td>
</tr>
<tr>
<td>Resolution</td>
<td>10Hz</td>
<td>10Hz</td>
</tr>
<tr>
<td>RD-404D2</td>
<td>0Hz*</td>
<td>100Hz</td>
</tr>
<tr>
<td>Max.</td>
<td>1.5kHz</td>
<td>1.6kHz</td>
</tr>
<tr>
<td>Resolution</td>
<td>100Hz</td>
<td>100Hz</td>
</tr>
</tbody>
</table>

* A voltage of 13V DC is present in filter output if 0Hz is selected.

### Frequency setting accuracy
- **Accuracy**: ±1% (for RD-404D only)

### Control characteristics
- **Code**: BCD: 1 digit (8, 4, 2, 1)
- **Logic and level**: 0V: ON
  - +5V or open: OFF
- **Level input process (internal)**: Pulled up to +5V at 100kΩ

### Others
- **Supply voltage**: ±15V (±5V to ±18V)
- **Quiescent current**: +6.2mA, −1.2mA (typ)
- **Temperature/ Operation**: −20°C to 70°C, 10 to 95%RH
- **Humidity range**: Storage: −30°C to 80°C, 10 to 80%RH
- **Dimensions**: 5.15 x 14 x 4.0mm, S20 type

**Note**: The following specifications are applied unless otherwise specified:
- 23±5°C, Vs=±15V

* Potential effects on characteristics including gain and rolloff may be concerned depending on the type of SR filters to be combined with, especially if connected in parallel.