The SR540 chopper will handle all your optical chopping requirements — from simple measurements to dual-beam and intermodulation experiments. The SR540 has a 4-digit frequency display, front-panel frequency control, analog voltage frequency control, and two reference outputs with selectable operating modes. Two anodized aluminum blades are provided: a 5/6 slot blade for frequencies up to 400 Hz, and a 25/30 slot blade for frequencies up to 3.7 kHz. Reference outputs are provided for frequencies corresponding to each row of slots, as well as the sum and difference frequencies.

- **SR540 Specifications**

  - **Chop frequency**
    - 4 Hz to 400 Hz (5/6 slot blade)
    - 400 Hz to 3.7 kHz (25/30 slot blade)
  - **Frequency stability**
    - 250 ppm/°C (typ.)
  - **Frequency drift**
    - <2 %, 100 Hz < f < 3700 Hz
  - **Phase jitter (rms)**
    - 0.2° (50 Hz to 400 Hz)
    - 0.5° (400 Hz to 3.7 kHz)
  - **Frequency display**
    - 4-digit, 1 Hz resolution and accuracy
  - **Frequency control**
    - 10-turn pot with 3 ranges:
      - 4 Hz to 40 Hz
      - 40 Hz to 400 Hz
      - 400 Hz to 3.7 kHz
  - **Input control voltage**
    - 0 to 10 VDC for 0 to 100 % of full scale. Control voltage overrides frequency dial.
  - **Reference modes**
    - \( f_{\text{inner}} \), \( f_{\text{outer}} \), \( 5 \times f_{\text{outer}} \), \( f_{\text{inner}} + f_{\text{outer}} \), \( f_{\text{inner}} - f_{\text{outer}} \)
  - **Dimensions**
    - Controller: 7.7” x 1.8” x 5.1” (WHD)
    - Head: 2.8” x 2.1” x 1.0” (WHD)
  - **Blade diameter**
    - 4.04” ± 0.002”
  - **Cable length**
    - 6 ft.
  - **Power**
    - 12 W, 100/120/220/240 VAC, 50/60 Hz
  - **Warranty**
    - One year parts and labor on materials and workmanship, 90 days on motor

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**Ordering Information**

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<th>Part Number</th>
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<td>O540RCH</td>
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