

A0FS Specifications  
声光移频器产品规格书  
FS1011-TS040-020-633



1. SPECIFICATIONS (规格)

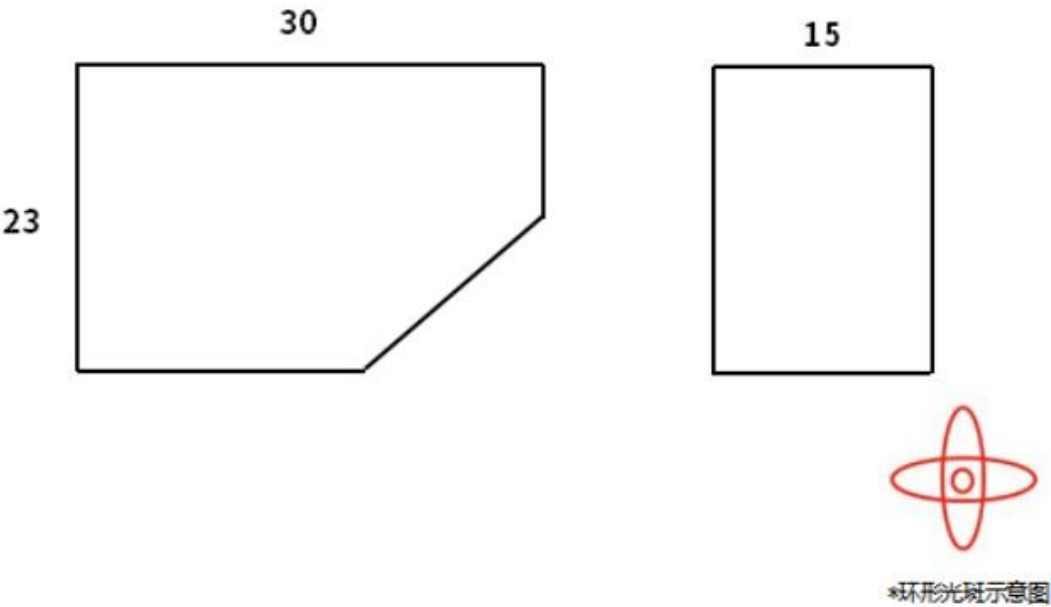
|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| Interaction material (介质材料)            | Tellurium dioxide (二氧化碲)                |
| Acoustic mode (声波模式)                   | Shear (切变波)                             |
| Operating wavelength (工作波长)            | 633nm                                   |
| Polarization of incident beam (入射光偏振)  | Linear, horizontal to base (线偏振, 水平于基座) |
| Polarization of 1st order beam (1级光偏振) | Linear, vertical to base (线偏振, 垂直于基座)   |
| Polarization of 0 order beam (0级光偏振)   | Linear, horizontal to base (线偏振, 水平于基座) |
| Transmission (透过率)                     | > 98%                                   |
| Active aperture (有效孔径)                 | 2mm                                     |
| Center frequency (Fc) (中心频率)           | 40MHz                                   |
| Frequency drift / °C (频漂)              | < ±0.1ppm                               |
| Diffraction efficiency (衍射效率)          | > 85%                                   |
| RF power (射频功率)                        | <1.5W                                   |
| Input Impedance (输入阻抗)                 | 50Ω Nominal                             |
| VSWR (驻波比) @Fc                         | < 1.2:1                                 |
| RF connector (射频接头)                    | SMA-F                                   |
| Cooling (散热方式)                         | Conduction-cooled (传导冷却)                |
| Shell material (外壳材料)                  | Aluminum alloy6063 (铝6063)              |

\*器件工作时产生的环形光斑属于声光原理决定的正常现象。

2. ORDERING CODES（编码规则）

|           | Fc  |   | Active aperture |      | Wavelength |        |
|-----------|-----|---|-----------------|------|------------|--------|
| FS1001—TS | XXX | — | XXX             | —    | XXXX       |        |
| 20 MHz    | 020 |   | 010             | 1 mm | 266        | 266 nm |
| 42 MHz    | 042 |   | 020             | 2 mm | 355        | 355 nm |
| 73 MHz    | 073 |   | 030             | 3 mm | 633        | 633 nm |

3. DIMENSIONS（外形尺寸—mm）



4. SUGGESTED RF DRIVER ELECTRONICS（建议驱动型号）

5. REVISION（版本）

| Number<br>(版本号) | Revisions date<br>(修订日期) | Revision<br>(修改项目) | Revision description<br>(修订内容说明) |
|-----------------|--------------------------|--------------------|----------------------------------|
| A               | 2023. 6. 21              | Modify the size    | /                                |
| B               | 2024. 7. 24              | Revise             | 增加光斑说明                           |

**Quality Assured:** In house made, high damage threshold, Vacuum bonding, 100% Diffraction efficiency test & burn-in test.