

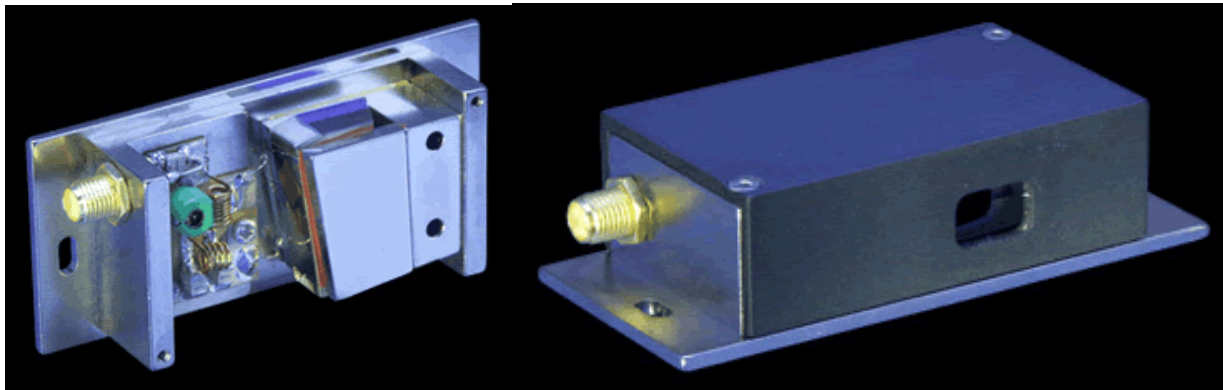


## Tunable Filters

An acousto-optic tunable filter is a pass-band transmission filter, which exploits the acousto-optic interaction inside an anisotropic medium. AO Tunable Filters are generally fabricated in Tellurium Dioxide, operating within the visible to near/mid infra-red. The AO Tunable Filter allows the user to select and transmit a single wavelength, or in some cases a selection of multiple discrete wavelengths from the incoming light. The centre of the pass-band may be selected simply by tuning the drive frequency.

Over a number of years we have maintained an ambitious development program which we believe has enabled us to enhance the general performance and increase the capabilities of AOTF technology. Our product range includes purpose designed solutions for illumination / excitation wavelength selection and multispectral / hyperspectral imaging, for which we also offer the latest DFS driver technology.

Typical applications include; Biomedical (confocal microscopy & hyperspectral imaging), Scientific (spectroscopy) and industrial (process control).



S/N	Model	Description	Driver
1.	48032-4-3.5	TeO <sub>2</sub> , 1.8-5um wavelength, aperture 4mm, deflection 2.7°, RF 5W	64020-200-5ADSDFS-A 64020-200-5ADMDFS-A
2.	48055-2-1.7	TeO <sub>2</sub> , 1.2-2.2um wavelength, aperture 2mm, deflection 2.71°, RF 1.5W	64020-200-2ADSDFS-A 64020-200-2ADMDFS-A
3.	48058-1-.55	TeO <sub>2</sub> , 442-676nm wavelength, aperture 1mm, deflection 1.4°, RF 0.8W	Eight Channel: 64048-80-.1-8CH-16 64048-80-.1-8CH-16M Four Channel: 64048-80-.1-4CH-5 64048-80-.1-4CH-5M
4.	48058-1-.55-WP	TeO <sub>2</sub> , 442-676nm wavelength, aperture 1mm, deflection 1.4°, RF 0.8W	Eight Channel: 64048-80-.1-8CH-16 64048-80-.1-8CH-16M Four Channel: 64048-80-.1-4CH-5 64048-80-.1-4CH-5M
5.	48058-2.5-.55	TeO <sub>2</sub> , 442-676nm wavelength, aperture 2.5mm, deflection 1.4°, RF 0.8W	Eight Channel: 64048-80-.1-8CH-16 64048-80-.1-8CH-16M Four Channel: 64048-80-.1-4CH-5 64048-80-.1-4CH-5M
6.	48058-2.5-.55-WP	TeO <sub>2</sub> , 442-676nm wavelength, aperture 2.5mm, deflection 1.4°, RF 0.8W	Eight Channel: 64048-80-.1-8CH-16 64048-80-.1-8CH-16M

			Four Channel: 64048-80-.1-4CH-5 64048-80-.1-4CH-5M
7.	48058-5-.55	TeO <sub>2</sub> , 442-676nm wavelength, aperture 5mm, deflection 1.4°, RF 0.8W	Eight Channel: 64048-80-.1-8CH-16 64048-80-.1-8CH-16M Four Channel: 64048-80-.1-4CH-5 64048-80-.1-4CH-5M
8.	48062-1-.55	TeO <sub>2</sub> , 442-676nm wavelength, aperture 1mm, deflection 1.3°, RF 0.8W	Eight Channel: 64040-75-.1-8CH-16B 64040-75-.1-8CH-16MB Four Channel: 64040-75-.1-4CH-5 64040-75-.1-4CH-5M
9.	48062-1-.55-WP	TeO <sub>2</sub> , 442-676nm wavelength, aperture 1mm, deflection 1.3°, RF 0.8W	Eight Channel: 64040-75-.1-8CH-16B 64040-75-.1-8CH-16MB Four Channel: 64040-75-.1-4CH-5 64040-75-.1-4CH-5M
10.	48062-2.5-.55	TeO <sub>2</sub> , 442-676nm wavelength, aperture 2.5mm, deflection 1.3°, RF 0.8W	Eight Channel: 64040-75-.1-8CH-16B 64040-75-.1-8CH-16MB Four Channel: 64040-75-.1-4CH-5 64040-75-.1-4CH-5M
11.	48062-2.5-.55-WP	TeO <sub>2</sub> , 442-676nm wavelength, aperture 2.5mm, deflection 1.3°, RF 0.8W	Eight Channel: 64040-75-.1-8CH-16B 64040-75-.1-8CH-16MB Four Channel: 64040-75-.1-4CH-5 64040-75-.1-4CH-5M
12.	48062-4.5-.55	TeO <sub>2</sub> , 442-676nm wavelength, aperture 4.5mm, deflection 1.3°, RF 0.8W	Eight Channel: 64040-75-.1-8CH-16B 64040-75-.1-8CH-16MB Four Channel: 64040-75-.1-4CH-5 64040-75-.1-4CH-5M
13.	48062-4.5-.55-WP	TeO <sub>2</sub> , 442-676nm wavelength, aperture 4.5mm, deflection 1.3°, RF 0.8W	Eight Channel: 64040-75-.1-8CH-16B 64040-75-.1-8CH-16MB Four Channel: 64040-75-.1-4CH-5 64040-75-.1-4CH-5M
14.	TF515-230-4-5-VU1	TeO <sub>2</sub> , 400-630nm wavelength, aperture 5x5mm, beam separation 4°, RF 2W	
15.	TF525-250-6-3-GH19	TeO <sub>2</sub> , 400-600nm wavelength, aperture 3mm, beam separation 3°	
16.	TF527-245-6-3-GH18	TeO <sub>2</sub> , 405-650nm wavelength, aperture 3mm, beam separation 3°	
17.	TF600-300-6-3-GH19	TeO <sub>2</sub> , 450-750nm wavelength, aperture 3mm, beam separation 3°	
18.	TF640-325-2-12	TeO <sub>2</sub> , 475-800nm wavelength, aperture 12x12mm, RF 2W	
19.	TF1450-500-2-F2S-SU6	TeO <sub>2</sub> , 1.2-1.7um wavelength, aperture 12x12mm, RF 2W	