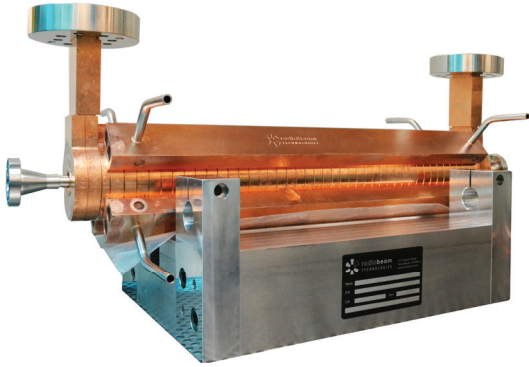
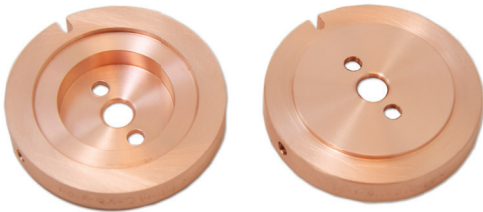


X-band Deflector



Field amplitude	8.48 kV/m \sqrt{W}
Group velocity	0.0267c
Attenuation factor	0.66 m ⁻¹
Cavity length	46 cm
Number of cells	53
Power ratio	0.55



The X-band traveling wave deflection mode cavity, also known as TCAV, has been developed to perform longitudinal phase space measurements of subpicosecond, ultra-relativistic electron beams. It takes advantage of the greater efficiency of X-band wavelengths to extend the technique to very high energies, in a more compact package than S-band technology.

For the utmost quality, we design, machine, braze, and test each deflector for every specific application. The scalable design allows us to customize the length to your requirements and power source.

FEATURES SHOWN

- Short filling time
- Femtosecond resolution
- Small footprint
- Design to operate at 11.424 GHz; 11.998 GHz available
- Matched to XL4 and XL5 klystrons

RELATED PRODUCTS

- S-Band Deflector
- X-Band Windows
- WR90 Waveguides
- Matching Spectrometer Dipoles
- Imaging Screens



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www.radiabeam.com

info@radiabeam.com

v: +1 310 822 5845 | f: +1 310 582 1212

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