

HIGH POWER CORRUGATED WAVEGUIDE COMPONENTS

Waveguide switches



General Atomics (GA) produces waveguide switches for power/pulse lengths and frequencies.

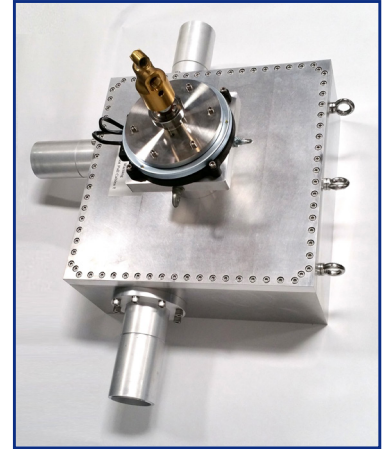
Precision machined for accurate alignment, low-loss transmission and rapid change in beam direction

WAVEGUIDE SWITCHES

GA has the scientific, engineering and fabrication expertise to design and deliver standard and specialized waveguide switches

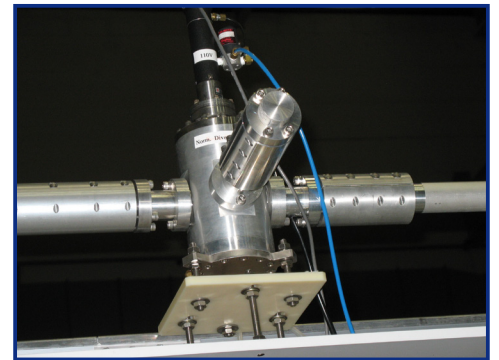
2.5 INCH (63.5 MM) DIAMETER HIGH POWER WAVEGUIDE SWITCH:

- Suitable for 2 MW, 170 GHz cw operation, such as needed for ITER
- Mirror block is water-cooled
- Switching time from straight through to diverted position is ~ 1 s using a pneumatically controlled linear vacuum feedthrough
- Offering a compact version for limited space applications



1.25 INCH (31.75 MM) WAVEGUIDE SWITCH:

- Suitable for 1 MW, 10 s operation
- Design uses a pneumatically controlled linear actuator
- Used on DIII-D 110 GHz electron cyclotron heating system



3.5 INCH (88.9 MM) WAVEGUIDE SWITCH:

- Non-evacuated switch for 0.5 MW, 5 s operation at 80 to 170 GHz
- Design uses pneumatically controlled rotary actuator

