

SLAC-Style 3 Meter Section



STANDARD PARAMETERS

Length	3.048 m
Repetition rate	50 pps
R_{shunt}	56.5 M Ω /m
Q	13,000
Filling time	830 ns
E_{acc} (maximum)	25 MV/m
Maximum boost	$10.9\sqrt{P[MW]}$ MeV

The SLAC-style 3 meter section is a staple of normal conducting accelerators around the world. The design has been proven over the past 50 years and it still finds use in accelerators ranging from FELs, synchrotron light sources, and inverse Compton sources. The constant-gradient traveling wave design allows for a wide range of beam loading.

We also offer injector optimized sections with dual-feed couplers and other features for emittance preservation.

OPTIONS

- Symmetric dual-feed couplers for minimal dipole moments
- Racetrack couplers for minimal quadrupole moments
- Fat-lip coupler geometry
- Higher repetition rates
- 2.998 or 2.856 GHz
- High power conditioning
- Custom lengths
- Choice of RF flange
- Waveguide networks
- Athermalized mounts



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Other options are available upon request. Please contact us or visit our website for purchasing information.