
SLAC Activities for the CLIC Collaboration

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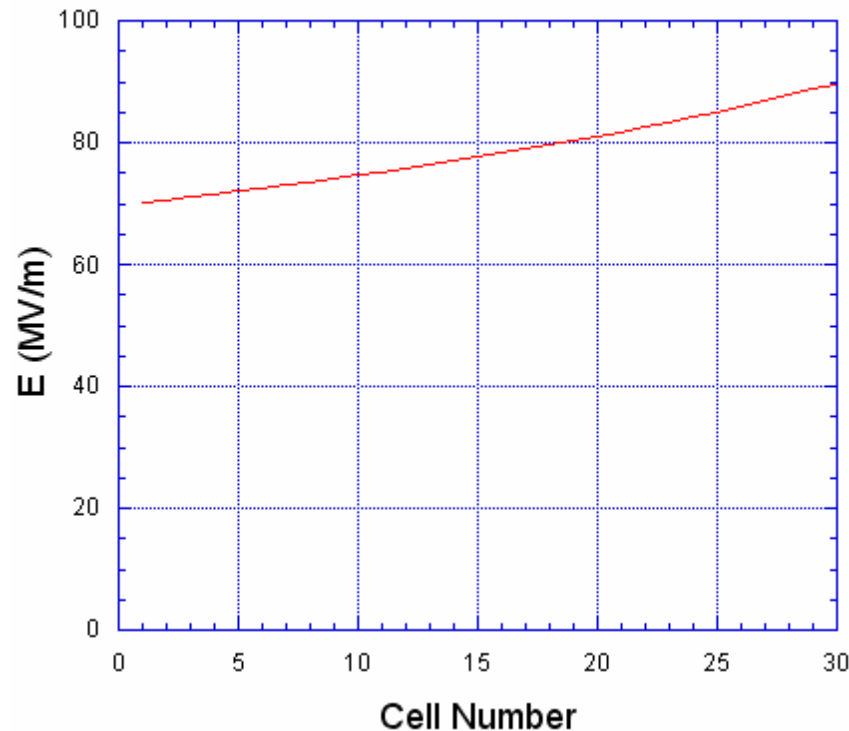
Stanford Linear Accelerator Center

October 2007

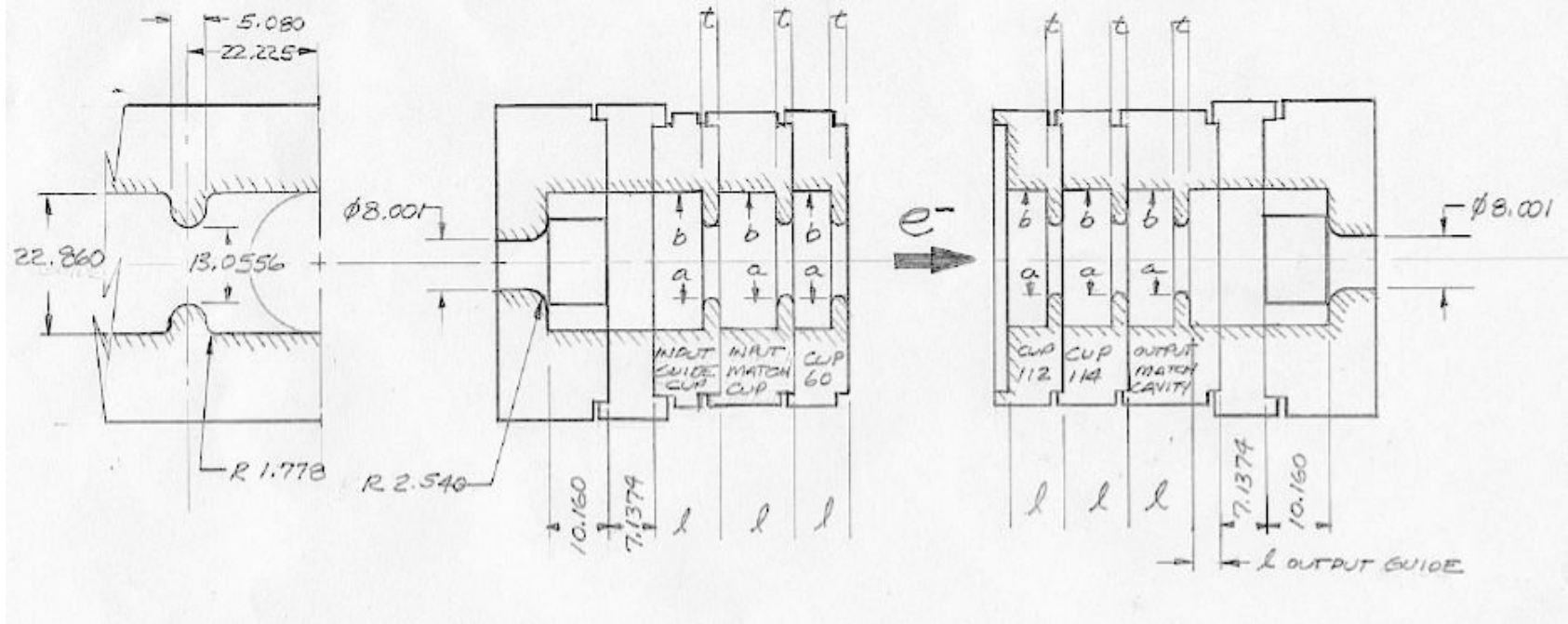
RF Parameters of T28_VG2.9 (T26) Structure

Structure Type	L (cm)	Total Acc. Cells	v_g % c	2a mm	T mm	r M Ω /m	τ	Q_{ave}	T_f ns
Even Cell Of T53VG3	26	30	3.30-1.62	7.8-6.3	1.66	92-107	0.19	6843	35.8

Accelerating Field with Input 50 MW
T26 (Even or Odd Cells of T53VG3)



Design for T28_VG2.9 (T26) Structure

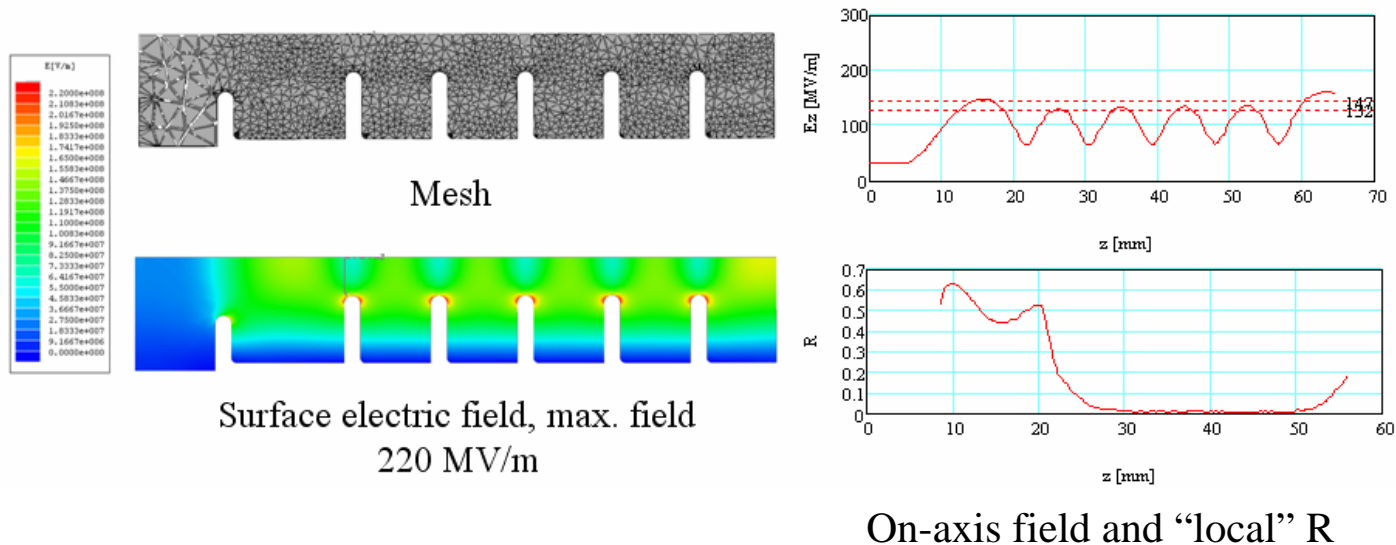


Structure Layout

- Input uses existing universal coupler assembly.
- Input matching.
- Regular cups: 28 even number cups from T53VG3.
- Output matching.
- Output uses existing universal coupler assembly
- Total 30 accelerating cells in the structure.

Status and Schedule for T28_VG2.9 (T26) Structure

1. Re-designed of the input matching region.



2. All new RF parts under fabrication will be completed by the end of October.
3. The final assembly will be completed by the end of 2007.
4. Design modification of strongback is underway.

Other Collaboration Structures - I

1. T18_VG2.4_DISC

- Two sets of RF Parts are under fabrication at KEK and will be sent to SLAC in November, 2007
- Diffusion bonding and brazing work will start from the end of November, 2007.
- Final assemblies and tuning of two section will be done at SLAC. Due to Holiday Season, there is some uncertainties. But, most conservatively, one of the completed section will be sent to KEK by the end of January 2008. One will be tested in the NLCTA, SLAC.

2. TD18_VG2.4_QUAD

- SLAC Provides RF feed related components and assists its shipping to SLAC by end of January 2008.
- High power test will in the NLCTA, SLAC in the early of 2008 soon after the structure is received.

Other Collaboration Structures - II

3. New 11.424 GHz Short (10-cell) Test Structures with Various Iris and Disc Thickness for High Gradient Studies.

C10_VG0.7 x2

C10_VG1.35 x2

C10_VG3.3 x2

C10_VG2.25THICK x2

- CERN will complete the electrical design in the middle of November 2007.
- SLAC will make the mechanical design, fabrication assemblies and high power tests.
- The structure assemblies are planned to be completed in the middle of 2008.