



WebEX meeting – CERN/SLAK/KEK

CERN production

G. Riddone, 04.12.2009







Outline

- Accelerating structures
 - Manufacturing flow and status
- PETS
 - Manufacturing flow and status





Status on 11.11.2009







1st Baking @ 650 C



Acc. structure







Flange and str. support

CÉRN



G. Riddone





CERN status - assembly

<u>11.4 GHz</u>

- Two damped accelerating structures assembled TD18 (TANK) and TD24 (TANK)
 - TD18- old CERN procedure
 - TD24 diffusion bonding, no etching to be baked
- Disks for two undamped T18 with SLAC/KEK mechanical design at CERN (*SEALED*) to be bonded PRIORITY 2
- Disks for undamped T24 (SEALED) at CERN to be bonded

<u>12 GHz</u>

 Disks for two damped TD24 (TANK) at CERN for the twobeam test stand – bonded, to be baked – PRIORITY 1





Status - machining

<u>11.4 GHz</u>

- Disks for two undamped <u>T24 smaller diameter</u> (45 mm, SEALED) end of Dec 2009 - VDL
- Disks for two damped CD10 (vg 1.35) (80 mm, SEALED) end of Dec 2009 - VDL
- TD24 sealed to be launched in fabrication

<u>12 GHz</u>

- Disks for one undamped <u>T24 (80 mm, TANK)</u> Dec 2009/Jan 2010
- Disks for two damped <u>TD24 smaller diameter</u> (45 mm, TANK) beginning of Dec 2009
- T24 sealed to be launched in fabrication (stand alone test)

PETS with damping material – 11.4 GHz

CLIC

ERN















PETS main components

- Bars
- Couplers with flanges and cooling circuits
- Tank gaskets
- Accessories
- Damping material (SiC)



Manufacturing flow 1/3







Manufacturing flow 2/3













- 3 loads completed, including leak test and vacuum tests
- Baking at 250-300 for 4 hours on 04.12.2009
- Next week shipping to:
 - x1 to KEK
 - x2 to SLAC

