The VWP3097 Fundamental Power Coupler was designed by CEA Saclay and CPI for the IFMIF Linac. CEA Saclay was responsible for the RF design and the preliminary thermo-mechanical design. CPI was responsible for the detailed thermo-mechanical design. The 50-ohm coaxial coupler consists of an RF window, a “T” transition assembly and a cooled outer conductor. The 200 kW cw requirement is met with a single alumina ceramic window. The vacuum side of the ceramic is coated with TiN to suppress multipactor. The couplers will be qualified at CIEMAT in Spain for CEA Saclay. Eight VWP3097 couplers will be used on the IFMIF Linac.

FEATURES:
• Frequency: 175 MHz
• Peak power: 200 kW
• Average power: 200 kW
• Cooling: water / He gas

APPLICATIONS:
• Superconducting Linear Accelerators

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