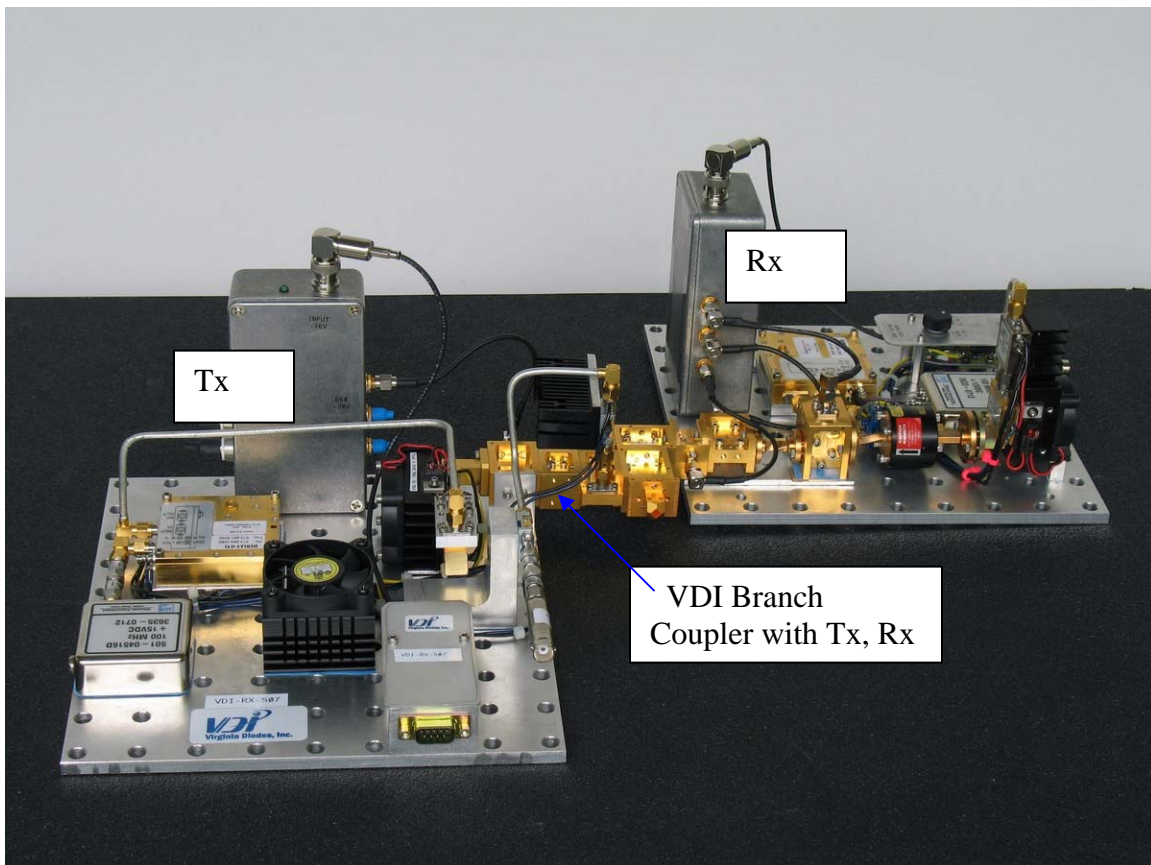
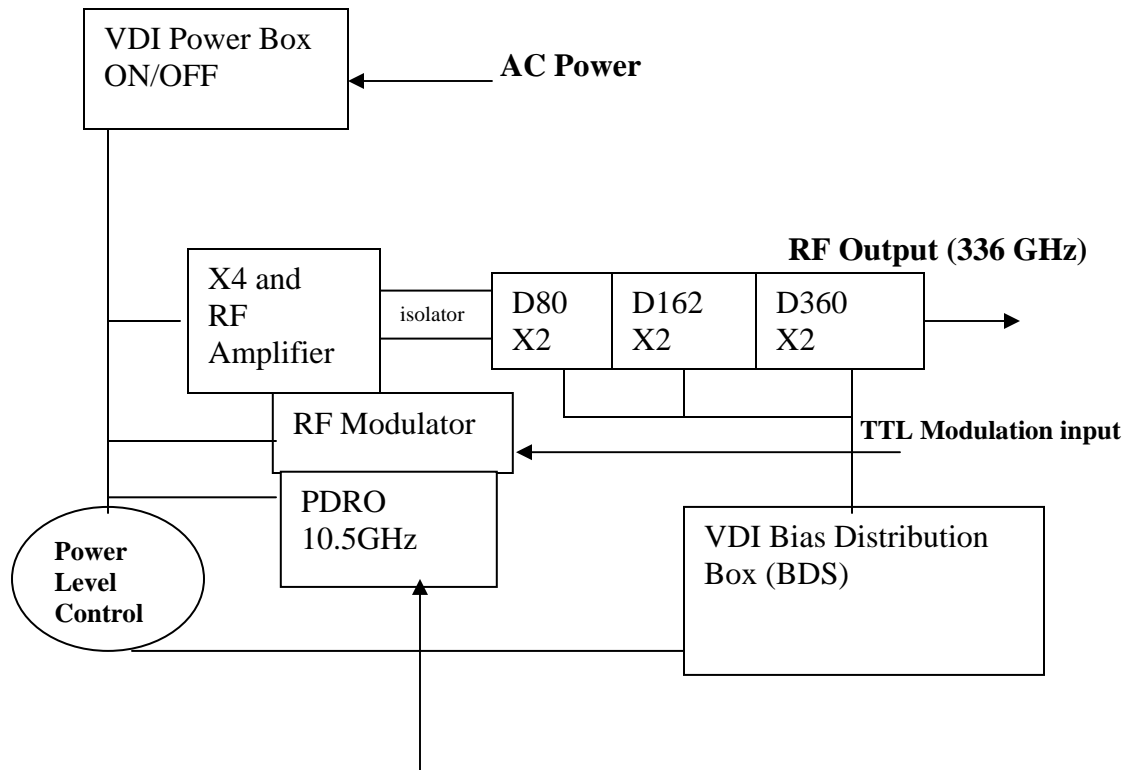


New 340 GHz Phase-Locked Transmit and Receive System Using Fixed-Frequency PDRO and Output/Input Branch Coupler

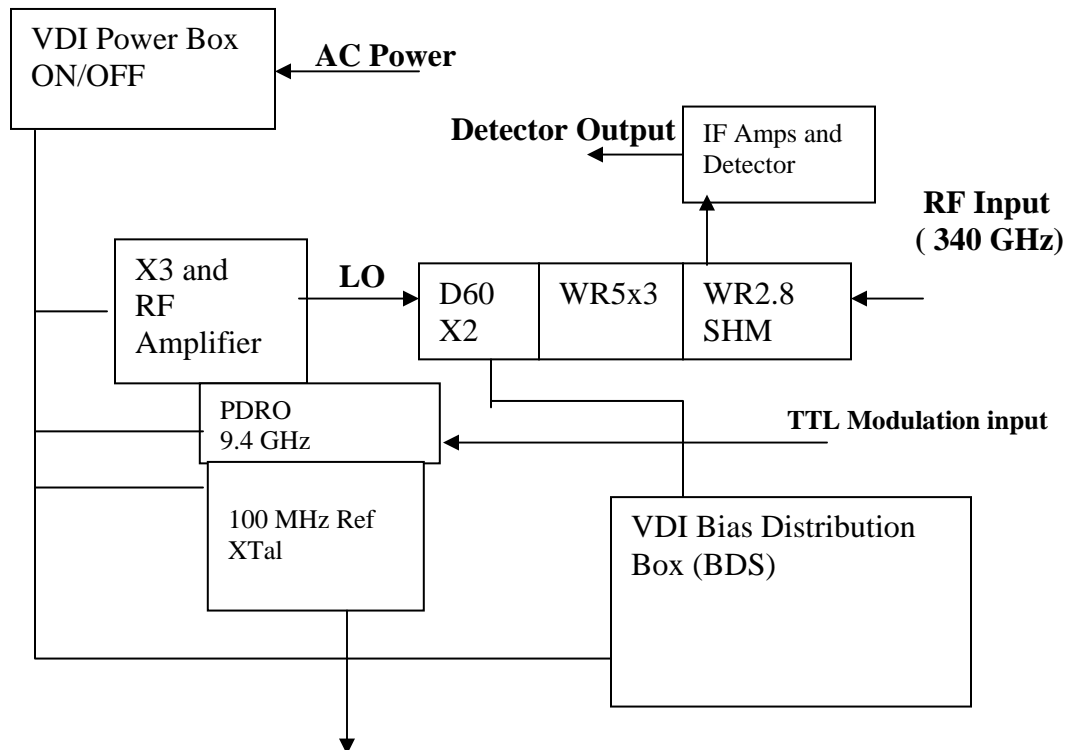
April 2007

VDI has developed a compact 340 GHz phase-locked Transmit and Receive System using fixed-frequency PDROs. Approximately 10mW of RF Output power is achieved with Tx; Trec is 2000K (DSB) with the LNA and detector-output IF electronics. A VDI Coupler may be used with Tx, Rx modules for improved system level applications. This system and electronic configuration demonstrated approximately – 80dBc/Hz @ 100KHz Phase Noise. The Tx RF output power at 340 GHz can be adjusted and modulated.





Phase Lock 100 MHz Ref. Input from companion Rx



Phase Lock 100 MHz Ref. Output to companion Tx

Please contact VDI today for additional details (434) 297-3257

Virginia Diodes, Inc., 979 2nd Street SE, Suite 309, Charlottesville, VA 22902, USA
 Phone: 434.297.3257 FAX: 434.297.3258 e-mail: VDIRFQ@virginiadiodes.com