

Cresta II Output Power Measurement

The output power was measured using a Gigatronics 8541C power meter and Gigatronics 80350A peak power sensor. The output signal was routed through a 1 meter low-loss cable to a -3 dB hybrid. One of the hybrid outputs was terminated into the power sensor with another low-loss 1 meter cable and the other output was terminated into a 20 dB attenuator and the spectrum analyzer (H-P 8563E). The peak sensor was internally triggered from the power meter when the power meter saw the level above -10 dBm. The device under test was sending packets with a short inter-packet gap of 60 μ s. The payload was approximately 2000 μ s long. The measured output power at the sensor was 19.24 dBm. After measurement of the aggregate insertion losses from transmitter to the power sensor using the network analyzer (H-P 8753E), the additional loss was 5.2 dB from transmitter to power sensor head. The peak output power therefore is 24.44 dBm.