PERFORMANCE SPECIFICATIONS

Pulse Repetition Rate: 10 MHz to 5000 MHz in a single range.

Droop at 10 MHz is less than 20 %

Rise/falltime (10-90%): see TABLE on page 4

Rise/falltime (20-80%): see TABLE on page 4

Transition Time matching: 20 ps typical at +10 dBm Input Level.

Output Amplitude per Side: 2 V nominal. Both outputs are independent.

Output Amplitude Variation: typically within ±10 %.

Output Amplitude Attenuation: 0 db to 19 dB in 1 dB steps with microwave attenuators. Transient waveforms and DC Output Offset voltage unaffected by attenuation setting. Each output attenuator is independent. Digitally displayed output amplitude resolution is 10 mV.

Transient Aberration: 5-15 % typically not including transient aberration of sampling head. The transient aberration can be reduced by lowering the Input Drive Level at some nominal increase in rise/falltime.

DC Output Offset Voltage: plus to minus 5 volts, independent from each output and digitally displayed with 10 mV resolution. The DC Ouput Offset Voltage is <u>independent</u> from the Output Amplitude Setting even if additional fixed attenuators are added at the Feed-Through joint.

Variable Rise/falltime: by reducing Input Drivel Level. It also yields lower transient aberration.

Nominal Input Drive Level: +10 dBm. Max. Input Level: +16 dBm. Input Drivel Levels of less than +10 dBm still yields satisfactory performance for sources which cannot provide the full Nominal Input Drivel Level.

Trigger Output Level: approx. -7 dBc with respect to the Input Drive Level.

Output Duty Cycle: approximately 50 % for all input frequencies.