

TS-6842A OVERVIEW



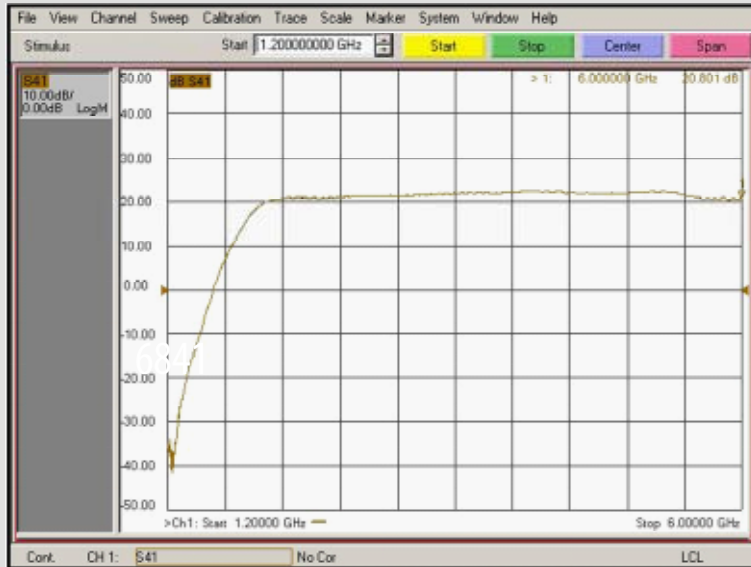
Pre-Selected LNA

Designed to improve the noise figure of the Agilent N6841A Sensor above 2 GHz.

At 6 GHz the TS-6842A will reduce the noise figure of the N6841A from 24 dB to less than 10 dB. In a typical RF environment the majority of the energy is below 1 GHz. The TS-6842A pre-selection circuit suppresses RF energy below 1 GHz preventing the LNA and N6841A sensor from being compressed. Figure 1 shows the typical gain transfer versus frequency. In a typical configuration with a TS-9503 antenna panel, the TS-6842A is installed between the antenna high band port and the N6841A's RF input port #2. The low band antenna port is connected directly to the N6841A RF input port #1 (see Figure 2). Call us for complete details or let us customize a solution to meet your exact needs.

Specifications

Bandwidth:	2 GHz to 6 GHz
Gain:	21 dB Typ.
Noise Figure	7 dB Typ.
Output 1 dB Compression	+10 dBm Typ.
Output 3rd Order Intercept:	+19 dBm Typ.
Power Requirements	12 to 25 VDC @ 125 ma.
Size	2.95" x 2.42" x 1.75"



(Fig 1) TS-6842A Gain Versus Frequency



(Fig 2) Typical Interconnection Diagram



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Specifications subject to change.