

DEPARTMENT OF ELECTRICAL ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY DELHI

Ref No. IITD/EE/JOP/NIQAWG

Dated: 27.12.12

NOTICE INVITING QUOTATIONS

Sub: Purchase of 100 MHz. Two Channel Arbitrary /Function Generator

Sealed quotations are invited for 100 MHz. Two Channel Arbitrary /Function Generator from the authorized dealers/ suppliers/ manufacturers in the sealed envelopes subscribing our reference No. and due date in the name of undersigned.

Technical Details

Specifications for 100 MHz. Two Channel Arbitrary /Function Generator

Cannels	Two
Waveforms	Sine, Square, Pulse, Ramp, Triangle, Sin(x)/x, Exponential Rise and Decay, Gaussian, Lorentz, Haversine, DC, Noise
Sine Wave	1 μHz to 100 MHz
Amplitude Flatness at 100 MHz	+/-0.5 dB
Square Wave	1 μHz to 50 MHz
Rise/Fall Time	\leq5ns
Jitter(rms)	200 ps
Ramp Waveform	1 μHz to 1 MHz
Linearity	\leq.15%of peak Output
Symmetry	0% to 100 %
Other Waveforms	1 μHz to 1 MHz
Pulse Wave	1 mHz to 50 MHz
Pulse width	8ns to 999.99s
Resolution	10 ps or 5 bits
Noise Bandwidth	100 MHz
Noise Type	White Gaussian
Repetition time	20 days
DC(into 50 Ohms)	-5v to +5 v
Arbitrary waveform	1 mHz to 50 MHz.
Memory Sampling Rate	1Gs/s
Accuracy	+/-1%
Remote Programming	USB, GPIB
Transition Time	5 ns
Vertical Resolution	14 bits

Effective analog BW	100 MHz
Modulations	AM,FM,PM,FSK,PWM,Sweep,burst
PM Phase Deviation	0 degree to +180 Degrees
FSK Carrier Waveforms	All except Pulse Noise and DC
Source	Internal/External
Internal modulating Freq.	2mHz to 1 MHz. (50% Squire)
PWM Source	Internal/External
Internal modulating Frequency	2 m Hz to 50 KHz
Deviation	0% to 50% of Pulse Period
Sweep Time/Hold/Return Time	10 ms to 100 s
Internal Trigger Period	1 ms to 500 s
Frequency Setting Resolution	1 uHz or 12 digits
Amplitude 50Ω Load	20 mVp-p to 10 Vp-p
DC(into 50 Ohms)	-5v to +5 v
Amplitude Open Circuit	40 mVp-p to 20 Vp-p

Terms and conditions:

1. Please submit TECHNICAL and FINANCIAL bids in separate sealed envelopes. Mark the two envelopes clearly as “Technical Bid” and “Financial Bid”. Both the sealed envelopes should be sent in a single sealed envelope clearly marked as “Quotation for “100 MHz. Two Channel Arbitrary /Function Generator . The Quote should reach the following address on or before 15.01.13 Up to 4PM

Prof. Ms. Devi Chadha
Optical Communication Lab
Block II Room No. 203
Department of Electrical Engineering
IIT Delhi Hauz Khas
New Delhi 110016

2. Quote should be in Indian rupees .
3. Price quoted should be FOB inclusive of all taxes and duties.
4. VAT and TIN No. of the supplier should be clearly mentioned.
5. If the quote is being submitted by the representative of the principals or manufactures themselves, please attach a valid agency certificate/dealership certificate authorizing the agent to quote on behalf of the manufacturer or principles.
6. If the item quoted is proprietary in nature, please enclose proprietary certificate from the principals stating that “This item is a proprietary item and no other manufacturer makes this item with same specifications.”
7. Produce compliance certificate for technical specifications.

8. The companies who comply with technical specifications in technical bid will be invited for Demonstration of technical features to the committee at its own expenses before issuing of supply order at date and time to be specified.
9. The Financial bid of only those companies who comply with the Technical Specification in Technical bid and satisfactory demonstration of technical features to the committee will be considered.
10. Copy of order already executed for supply of equivalent No. of items may please be enclosed.
11. Complete set of manuals for operation should be given .
12. Complete technical information should be supplied with the quotation. Quotations with in-sufficient details of specifications will not be considered.
13. Mention if you can provide any technical support like training of IIT Delhi personnel at IIT Delhi.
14. The Institute reserves the right to accept or reject any quotation or all quotations without assigning any reasons thereof.
15. Delivery terms must be clearly mentioned,
16. Validity of the quote should be at least for three months
17. A minimum of Three Years comprehensive on site warranty

Prof. Devi Chadha

Prof. V.K Jain

Prof. Vinod Chandra

Dr. Swades De