

SPECIFICATIONS FOR Phase Noise Analyzer

SL.No	Parameter	Specifications
	Phase noise analyzer with measurement capabilities	Phase Noise Measurements on CW sources Noise figure measurement Signal & Spectrum Analysis Analog modulation analysis
1	Frequency Range	1MHz to 8GHz
2	Frequency Resolution	0.01Hz
3	Reference Frequency	10MHz & 100 MHz (Output in synch with each other.)
4	Reference freq. accuracy	5×10^{-9} or better
	Inbuilt Spectrum Analyzer	
5	Maximum RF input level	+30 dBm
6	Frequency Range	1MHz to 8GHz
7	Display Average Noise Level (RF attenuation = 0 dB, termination = 50 Ω , normalized to 1 Hz RBW)	1MHz < f \leq 8GHz -160 dBm or better
8	SSB Phase Noise	frequency = 1000 MHz, carrier offset 100 kHz < -135 dBc / Hz or better
10	Bandwidths	RBW : 1Hz to 10MHz in steps VBW :1Hz to 10MHz in variable steps
11	Attenuator setting range up to 8GHz	0 dB to 75 dB, in 5 dB steps or better
12	Trace Functions	Clear/Write, Max Hold, Min Hold, Average
13	Trace Detector	Max Peak, Min Peak, Auto Peak, Sample, RMS, Average
14	Phase noise Sensitivity for CW	
	Carrier Frequency of 100MHz	-173dBc@100KHz or better
	Carrier Frequency of 1GHz	-173dBc@100KHz or better
15	Remote Control interfaces	GPIB(IEEE 488.2), LAN
16	Comprehensive Warranty	Five Years required
17	Power Supply	100 - 240VAC, 50Hz (power cord suitable for India)
18	High Power attenuator 100W,30dB,upto 1GHz	to be supplied

	Notes	
1	Vendors have to quote instrument (s) which are not obsolete / discontinued. Product support shall be available for minimum 10 years	
2	Vendors shall submit technical compliance in the same format provided by BARC along with their product datasheet and relevant necessary documents.	
3	If the vendor is not an OEM, he shall provide the authorization certificate from his manufacturer showing his willingness to extend the maintenance and repair support during warranty	
4	Vendor shall provide details of facilities they have in India to support warranty and repair. Offers without 5 year warranty will be rejected.	
5	Vendor has to quote suitable instrument meeting all specifications with built in display model.External display models will lead to disqualification	
6	Note: Post supply inspection in respect of supplies made is not permitted. Any offer containing the condition of post supply inspection will be out-rightly rejected. It is therefore, mandatory for the bidders , while quoting, to indicate in clear terms the requirement of post supply inspection by any outside agency.	