

Indian Institute of Technology, Kanpur Department of Biological Sciences& Bioengineering

Tender Documents

Sub: ENQUIRY LETTER FOR FOUR CHANNEL HIGH PASS LOW PASS FILTER

Tender Enquiry Number: IITK/BSBE/DKD/2021-22/LTAS-09 Enquiry Date: 04.08.2021

Closing Date: 13.08.2021 Opening Date: 16.08.2021

Quotations are invited for the above mentioned Subject as per the technical specifications given below:

Specifications

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FUNCTIONS	Low-pass filter, high-pass filter. Provides two channel of
	band-pass or band-reject via external connections.
FILTER CHARACTERISTICS	
Type:	8-pole, selectable Butterworth and Bessel.
Attenuation Slope:	48dB/octave
Tunable Frequency Range fc:	0.1Hz to 200kHz; (option 002, 0.005Hz)
Frequency Resolution:	0.001Hz, 0.1Hz to 0.999Hz; 3 Digits, 1Hz to 200kHz, (option 002, 0.001Hz from 0.005Hz to 0.1Hz).
Cutoff Frequency Accuracy:	±3%
Relative Gain at fc:	-3dB, Butterworth; –12.6dB, Bessel.
High-Pass Bandwidth (0dB Gain):	>2MHz
Stopband Attenuation:	>80dB
Wideband Noise (2MHz bandwidth detector):	OdB gain, <400μVrms. Max. gain, <25μVrms RTI.
Harmonic Distortion (1V input, 0dB gain):	–60dB (0.1%) to 10kHz; –50dB (0.3%) to 100kHz
DC Stability:	Typically ±1mV/°C
Input:	Differential or single-ended
Pre-Filter Gain:	0dB, 10dB, 20dB, 30dB, 40dB, 50dB,±0.2dB.
Impedance:	1 megohm in parallel with 25pf.
Maximum Input:	±10V peak at OdB gain, reduced in proportion to gain setting.
CMRR:	>60dB to 10kHz; >50dB to 100kHz
Coupling:	ac (0.16Hz) or dc.
Sensitivity:	3mV peak with 70dB total gain for 10V peak output.
Maximum DC Component:	±100V in ac coupled mode.
Output:	
Post-Filter Gain:	OdB to 20dB in 0.1dB steps, ±0.2dB
Maximum Voltage (open circuit):	±10V peak.
Maximum Current:	±80mA peak
Impedance:	50 ohms
DC Offset:	Adjustable to zero volts
GENERAL	
Crosstalk Between Channels (input source Š50 ohms):	−80dB for fsig Š200kHz, −70dB for fsig >200kHz.
Memory:	9 stored set-ups

Self-Test Diagnostics:	MPU checks unit upon power-up. Display indicates failure mode
Displays:	7 segment, green, LED; 0.3" high
Operating Temperature:	0°C to 50°C.
Isolation to Chassis:	±200Vdc
Input/Output Connectors:	BNC
Power Requirements:	90-132/180-264 volts ac, 50Hz-400Hz, 10 watts (3361),15 watts (3362), 30 watts (3364).
Dimensions and Weights:	3.5" (9cm) high, 14" (36cm) wide, 12.5" (32.13cm) deep; 12 lbs (5.4kg) net, 14 lbs (6.3kg) shipping.
Accessories:	3-terminal line cord; operating manual
CAB-025:	Cable, BNC, 3ft, Low Noise
OPTIONS	
002	extends low end cutoff to 0.005Hz
BK-330:	Line/battery operation
Rack Mount Kit:	Part No. RK-314, permits installation of the Model 3384 into a standard 19" rack spacing.
Warranty:	1 Year

Note: The Quotation should reach the undersigned on Or Before 5 Pm on a 13TH August 2021.

Indentor Details:

Dr. Dibyendu Kumar Das, Assistant Professor, Lab-17,

Department of Biological Sciences & Bioengineering Indian Institute of Technology, Kanpur-208016 Contact: 0512 259 4064, Email: dkdas@iitk.ac.in

Terms and Conditions:

- 1. Quotation Should Be offred through email (dkdas@iitk.ac.in)
- 2. Maximum discount should be offered.
- 3. Quotations should be valid for minimum 90 days
- 4. Delivery period will be 4-6 weeks after receipt of purchase order.
- 5. IIT Kanpur is fully exempted from payment of GST on Imported Goods against our DSIR certificate.
- 6. IIT Kanpur is partially exempted from payment of Customs Duty (We will provide Custom Duty Exemption Certificate, CD applicable is 5.5%).
- 7. Manufacturer authorization certificate from principal company is required if you are a local supplier
- 8. Include Preparatory item certificate if applicable.
- 9. The Institute reserves the right of accepting or rejecting any quotation without assigning any reason thereof.
- 10. All prices should be mentioned F.O.B/CIP/CIF New Delhi or Destination at IIT Kanpur.
- 11. Payment Terms: 100% after supply the Materials.
- 12. Bidder Clearly Mention Contact details with address and email ID.

Signature

(Dr. Dibyendu Kumar Das)