**Department of Physics, Indian Institute of Technology**

**IIT.P.O. Madras-600 036**

Ref. No. Date: 14 / 04 / 2017

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| **PHY** | **2017** | **013** | **STORES** |

To Whom It May Concern:

Dear Sir,  **Due date: 30 / 04 / 2017**

Please find below the specification of *Triple 4-Fold Logic Unit/Majority with Veto* we require for purchase. Kindly send us a quotation by the due date mentioned above.

Minimum specification for **Triple 4-Fold Logic Unit/Majority with Veto** (Quantity 1 – 5 nos. please quote unit price):

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| --- | --- | --- |
| **Triple 4-Fold Logic Unit/Majority with Veto** | | |
| **Sr. No** | **Parameters** | **Value** |
| 1 | Packaging | One unit wide NIM module |
|  | IN | Std. NIM level, 50 Ohm impedance |
| 2 | Reflection coefficient: less than 6% for Std. NIM inputs of 2 ns risetime |
|  | Minimum pulse width: 3.5 ns (FWHM) |
|  | VETO | Std. NIM level, 50 Ohm impedance. |
| 3 | Reflection coefficient: less than 6% for Std. NIM inputs of 2 ns risetime. |
|  | Minimum width: 10 ns (FWHM). The VETO signal must precede the coincidence event by at least 3 ns. |
|  | OUT and /OUT | Std. NIM level on 50 Ohm impedance |
| 4 | Width ranges: 6 ns to 100 ns or 20 ns to 800 ns selectable via internal jumpers |
|  | Rise/Falltime: 2 ns (10% to 90%) |
|  | Input/Output delay: 14 ns ± 2 ns |
|  | LIN | Std. NIM level on 50 Ohm impedance. |
| 5 | When the J6 internal jumper is inserted, the linear output has the same width as the input coincidence duration; |
|  | When the J6 internal jumper is not inserted, the linear output width is 3 ns. |
|  | Rise/Falltime: 2 ns (10% to 90%). |
|  | Input/Output delay: 12 ns ± 2 ns. |
| 6 | AND/OR logic unit mode | Double pulse resolution (OR): 4.5 ns |
|  | Minimum coincidence overlap (AND): 3 ns |
| 10 | MAJORITY logic unit mode | If "n" are the connected input signals (1 < or = n < or = 4) it is possible to set any majority level "m" with 1 < or = m < or = n |

**Accessories**

The vendor may quote optional accessories which may be required with the instrument mentioned for purchase together but will not be used for price comparison.

Please provide a clear warranty statement.

Please send the quotation (technical and price details) by email (signed and scanned) OR hard copy before the due date.

Please mark reference number on top of the quotation.

Yours Sincerely,

**Sivarama Krishnan**

**Co-ordinator**

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