

ITI LIMITED

A Govt. Of India Undertaking Dooravaninagar Bangalore

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Due Date 04-10-2021 15:00 ENQUIRY FOR PR M6121I001 Date 17-09-2021 13:24

Respected Sir Kindly quote your best prices and deliveries for the below mentioned components.

Sino	Item and Description	Quantity	Unit
	PC 006859A STM OPTICAL CARD	20.0000	Number of Units
	A0029 (PCB) PCB		

NOTE:

- 1. PLEASE SEND YOUR QUOTE IN A SEALED COVER SUBSCRIBING OUR ENQUI RY NUMBER AND THE DUE DATE ON THE ENVELOPE SHOULD REACH US ON OR BEFORE DUE DATE BY 3.00 PM.
- 2. OFFER THROUGH EMAIL WILL NOT BE CONSIDERED.
- 3. TERMS AND CONDITIONS AS PER ENCLOSURE.
- 4. OUR PAYMENT IS 60 DAYS CREDIT.
- 5. YOUR QUOTED PRICE SHALL BE A LL INCLUSIVE FOR ITI LTD.BANGALORE

Special Note:

- * KINDLY PROVIDE UDYAM REGISTRATION CERTIFICATE IF MSME REGISTERED ENTERPRISE
- * KINDLY MENTION SUBJECT AS "QUOTATION FOR STM OPTICAL CARD"; RFQ # AS "M61211001" & DUE DATE AS "04.10.2021" OVER ENVELOPE WITHOUT WHICH QUOTATION WILL NOT BE CONSIDERED FOR TENDERING
- * KINDLY ACKNOWLEDGE THE RECEIPT OF ENQUIRY BY RETURN MAIL
- * KINDLY CONFIRM WHETHER QUOTATION SUBMITTED BY PERSONAL DEPOSIT OR THROUGH ANY COURIER SERVICES (PROVIDE DOCKET REFERENCE)
- * KINDLY PROVIDE DATASHEET / TECHNICAL COMPLIANCE / SPECIFICATION DOCUMENT ALONG WITH QUOTATION
- * KINDLY SUBMIT YOUR VALUABLE QUOTATION AS PER ATTACHED TECHNICAL SPECIFICATION

Deputy General Manager

Yours Faithfully,

Central Purchase,

For I.T.I Limited

ITI Limited,Dooravaninagar

Bangalore-560016

Deputy General Manager - IMM

Thanking You.

GENERAL TECHNICAL SPECIFICATIONS FOR PCB

6859-iss1 Card

GENERAL SPECIFICATION

- 1) All the trace width specified in the gerber will be finished trace widths and are maximum.
- 2) 6-Layer PCB with both through hole and SMD components, including fine pitch components.
- 3) In thermal pad areas, vias masking should be open.

PCB SPECIFICATION

1) PCB name : 6859 -iss1
2) PCB-type : 6 layer
3) Density Classification : E

4) ML Build-up (Build-up enclosed)

5) No. of reference layers : 4 6) Required Impedance Tolerance : $\pm 10\%$

7) Material : FR4,170 Deg Tg 8) Length : 114.30 mm 9) Width : 64.77 mm

10) Thickness : 1.60 mm (thickness calculation enclosed)

11) Panel Size:NA12)No of PCBs per panel:NA13) Surface Plating:ENIG14) Photo Imageable Solder Mask:2 Nos.15) Component legend (in white ink):2 Nos.16) Impedance control:Yes

TRACE DETAILS

1) Min. trace Width : 8 mils in all electrical layers 2) Min Trace to Trace Gap : 8 mils in all electrical layers

3) Min Trace to Pad Gap : 8 mils for SMD

4) Min Drill : 20 mil

6859-iss1

6 LAYER PCB CONSTRUCTION

		Layer stack up	A.
L1	Signal Tracks	0.035	Finish Copper
		0.175	1*7628 prepreg
L2	Ground Planes	0.035	Inner layer
		0.300	1/1 0.3mm Laminate
L3	Power Planes	0.035	Inner layer
		0.420	4*2116 prepregs
L4	Power Planes	0.035	Cu foil+plating
		0.300	1/1 0.3mm Laminate
L5	Ground Planes	0.035	Inner layer
		0.175	1*7628 prepreg
L6	Signal Tracks	0.035	Finish Copper
	Total Thickness	1.58 +/-10% mm	

> Controlled impedance signals as per below table:

		IMPENDANCE :100 OHM DIFFERENTIAL						
Layer	Impedance types	Reference layer	Suggested Gerbe	r trace width/spacing	Targeted Impedance	Achie	ved imped	lance
L1	Differential	L2	8.00 N	MIL/8.00 MIL	100 ohm	102.	.12 ohm +/	-10%
L6	Differential	L5	8.00 A	AIL/8.00 MIL	100 ohm	100,	.32 ohm +/	-10%
		Note:1)Above calculation based on 4.30 dielectric constant of available material. Note:2)Above calculation based on available FR4 135TG material with us recently.						
		Note:3)Above calculation are theoretically, impedance practical values may changed in +/-10%						

TERMS AND CONDITIONS FOR SUBMISSION OF TENDER

- 1. Quotation must be submitted in duplicate (one copy without pricing). in a wax sealed cover, superscribed with our tender number & due date and should reach us well before DUE DATE. Open and/or late tenders and tenders without enquiry number and due date on the cover are liable for rejection without assigning any reason.
- 2. All offers should be complete with specification/catalogue (ENGLISH only) and samples where specified.
- 3. Validity: Quotations should be valid for a period of 180 days from the due date of tender. Once quotation is accepted and order is confirmed, the price must remain firm till completion of the order.
- 4. Delivery Schedule: Quoted must be valid and remain firm from the date we confirm the order. Indicate mode of despatch (RPP/ROAD/RAIL/AIR).
- 5. Inspection: Inspection of goods at our works is final. Goods rejected will be returned on freight to pay basis. Packing & forwarding charges in respect of such consignment will be debited to your account.
- 6. Payment: Bills will be paid within 60 days from the date of receipt of materials.
- 7. We reserve the right to accept or reject any or all offers and order part or full quantity, without assigning any reason.
- 8. Please specify your income Tax Account Number and Name of I.T. Circle.
- 9. The quote must be for the quantity specified in the enquiry and should also indicate slab rates for multiples of the quantity enquired.
- 10. Components to be supplied shall be from the latest batch of production. If items are offered from stocks the lot/batch code shall not be earlier than 2 years from the date of shipment.
- 11. LIQUIDATED DAMAGES AND RISK PURCHASE CLAUSES: Time is the essence of contract and the materials against the order arising out of this enquiry must be delivered by the supplier according to the delivery schedule indicated in the purchase order. In case of any change, the supplier should inform us in advance and obtain our approval to the revised delivery schedule should the supplier fail to deliver the material in full or part thereof, we shall be entitled at our option either to recover from the supplier as agreed the liquidated damages and not as penalty, a sum equivalent to half percent of the contract price of the item per week of such delay or part thereof subject to maximum of 15% of the contract price of the item delayed or to terminate the contract in respect of the balance Quantity so delayed and purchase material elsewhere at the risk of the supplier.

12. FOR INDIGENEOUS OFFERS ONLY:

- (a) PRICES should always be quoted on F.O.R. KRISHNARAJAPURAM basis including suitable packing.
- (b) Specify applicable statutory levies, e.g. Central Excise Duty, Sales Tax, etc. In absence of these, the prices shall be treated as inclusive of all such levies & no subsequent claims will be entertained.

13. FOR FOREIGN OFFERS ONLY:

- (a) Prices must be quoted on F.O.B. Port of Despatch or Airport and Indicate estimated charges for despatch by AIR FREIGHT/AIR POST PARCEL to BANGALORE.
- (b) Prices quoted must include Agency Commission (if any) to your Indian Agents. The same must be specified, which is payable to them in Indian Rupees.
- (c) Payment: Letter of Credit or sight draft through the STATE BANK OF INDIA, BANGALORE 560016, as detailed below:

"ITI will bear only LC establishment charges once & bank charges of State Bank of India. All foreign bank's charges [i.e. charges while negotiating documents which the same are sent on the collection basis, due to certain discrepancies in the presentation of documents (LCBCs etc.)] are to be borne by Foreign Suppliers. In case of order placed on sight draft basis (FLSCAs) also, the invoice amount will be paid & all the foreign bank's charges are to the supplier's account.

Please furnish your Banker's name and address for this purpose.

Please indicate whether you fall under purview of MSMED Act 2006 and if so the certified copy of relevant registration certificate as proof may be submitted along with tender bid.

In case such certificate is not produced at the time of bid you will not be considered to be falling under this category.

N.B.: FAILURE TO ADHERE TO ANY OF THE ABOVE, WILL DISQUALIFY THE OFFER.