X3T9.2/90-199

molex

December 10, 1990

Mr. John Lohmeyer
NCR Corporation
Chairman, X3T9.2
3718 North Rock Road
Wichita, KS 67226-1397

Dear John:

I'd like to offer a solution to a problem that is occurring with the 4-circuit power connector shown in Figure 13:J3/P3 Power Connector of the Enhanced Small Device Interface Standard. This figure shows no internal dimensions of the connector which are critical to assure industry intermateability. Although this has been generally regarded as "an .084 connector system", referring to the diameter of the pin, our customers are seeing product from various suppliers ranging from .083 down to .079 diameter. The mating cable connector cannot provide satisfactory long term stable contact resistance and acceptable mating and unmating forces over this pin diameter range.

I would like to make the following proposals. First, I'd like the ESDI committee to agree to add internal mating dimensions for the J3/P3 connectors or, as an alternative, issue a technical advisory document detailing the required mating dimensions. Second, I have enclosed for committee review a dimensional proposal from Molex which reflects the dimensions Molex feels will resolve intermateability issues and allow all vendors to make intermateable products.

Can this issue be added to the agenda for the X3T9.2 February 18-19, 1991 meeting in Austin, Texas?

Sincerely,

Jim McGrath
Product Manager

JM/ajs

Attachment

cc: Brian Payne - Molex
Joe King - Molex
Alan Berg - Molex
Martin Slark - Molex-Singapore

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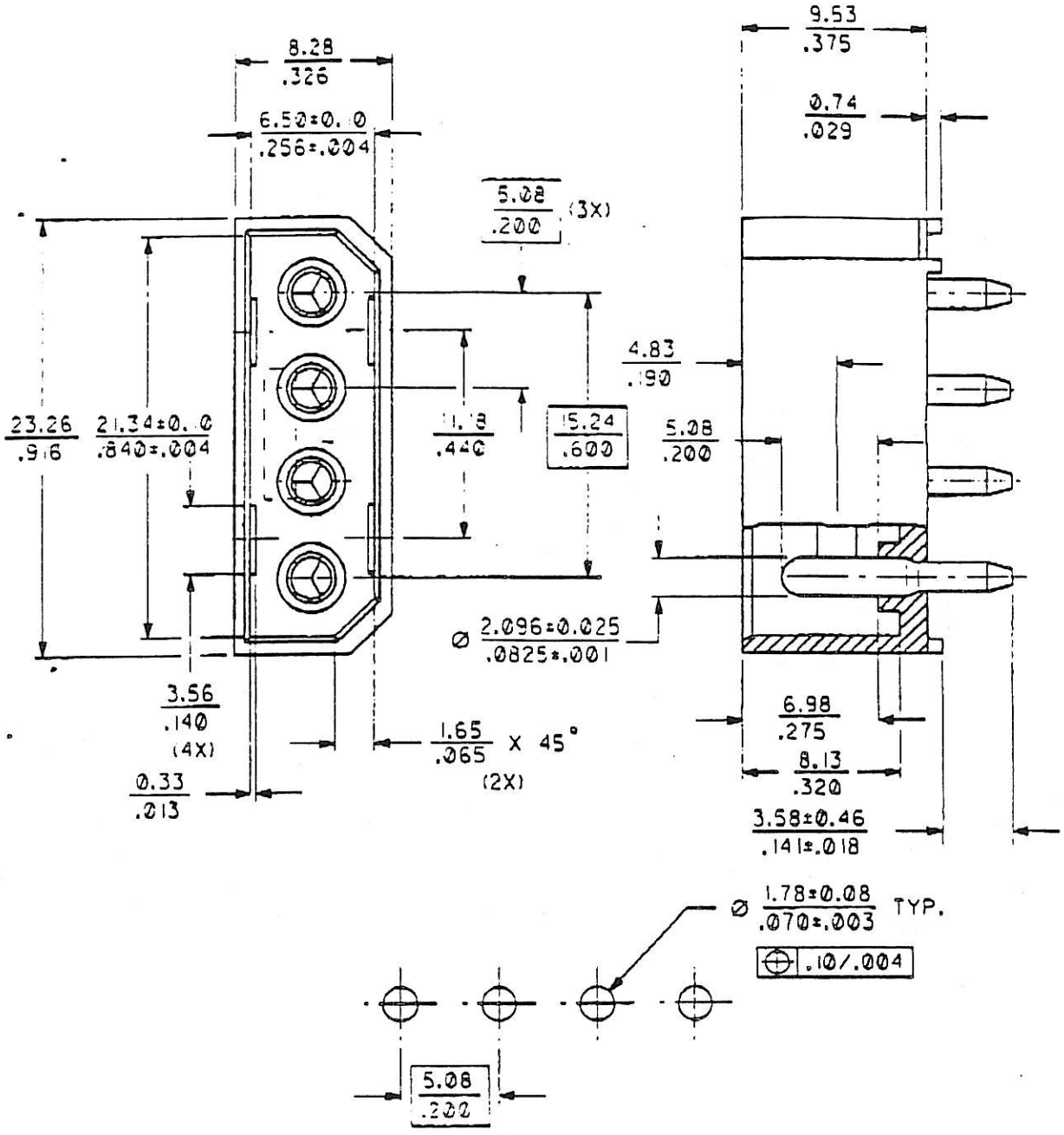
ENG NO. 8981 4V

ECO NO.

DIMENSIONS IN METRIC DO NOT SCALE DRAWING



RECOMMENDED PCB HOLE LAYOUT

MM
INCH

LTR	REVISION RECORD	DR	CHK	DATE
4		TCH		901130
3		TCH		901114
2		TCH		900929
1	PROPOSAL FOR ESDI	TCH		900919

MATERIAL :

FINISH :

WIRE RANGE :

INS. RANGE :

DRAWN BY S.K. TCH 900919

CHK'D BY

APPR'D BY

SCALE 3 : 1

MOLEX
F.E.M.L South
SHEET 1 OF 1

GENERAL TOLERANCES
ANGLE : ± 1° DIM : ± .15/.006

ENG. NO.: 8981-4V REV 4

TITLE :
POWER CONNECTOR