OPTIONALLY, USE 3/16 INCH DIA #4 INSULATED STANDOFFS OR SPACERS FOR MOUNTING. FOR SOLDER PIN CLEARANCE, THE MODULE NEEDS .09 INCH MINIMUM DISTANCE BETWEEN THE MODULE PCB AND A PANEL ON THE SOLDER SIDE. TO CLEAR THE RJ-45 CONNECTOR, THE MODULE NEEDS .55 INCH MINIMUM DISTANCE BETWEEN THE MODULE PCB AND A MOTHERBOARD ON THE COMPONENT SIDE. USE .22 INCH DIA INSULATING WASHERS AND #4 PAN HEAD SCREWS TO MOUNT STANDOFFS OR SPACERS. APPLICATION EXAMPLE ON SHEET 2 SHOWS USE OF CABLE ON CONNECTOR JP1. APPLICATION EXAMPLE ON SHEET 3 SHOWS USE OF MOTHERBOARD AND ALLOWS COMPONENT HEIGHT OF .33 INCH UNDER THE MODULE. APPLICATION EXAMPLE ON SHEET 4 SHOWS USE OF MOTHERBOARD WITH MINIMUM ASSEMBLY HEIGHT, NOT ALLOWING COMPONENTS UNDER THE MODULE.
APPLICATION SAMPLE 1
CABLES AT JP1 AND JP3, MODULE MOUNTED ON METAL PANEL

HOLE PATTERN ON METAL PANEL

MODULE OUTLINE

Ø .113 ± .003
-.001
[4 PLACES]

.110 MAX

.110 MAX

.100 X .100 CONNECTOR

20 SOCKET

2.610 MAX

2.500

1.550

1.010 MAX

A

B

C

D

4-40 NYLON STANDOFF (QTY 4)
LYN-TRON P/N NY9400-0440-0.187-00

2.500

MAX

1.110

4-40 X .25
PAN HEAD SCREW
MCMASTER P/N 91772A106

#4 INSULATING WASHER, SMALL
MCMASTER P/N 90295A059

METAL PANEL

4-40 X .25
PAN HEAD SCREW
MCMASTER P/N 91772A106

#4 INSULATING WASHER, SMALL
MCMASTER P/N 90295A059

MODEL SB70LC-100IR

CUSTOMER DRAWING
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850380

REVISE OR UPDATE

1:2 SHEET 2 OF 3

B

SAN DIEGO, CA. 92121
5405 MOREHOUSE DR., STE 200
(858) 558-0293

SCALE

DRAWING NUMBER

REV

TITLE

A
NOTES (CONT'D):

- FOR MOTHERBOARD COMPONENT HEIGHT OTHER THAN .33: STANDOFFS SHOULD BE OF A MINIMUM LENGTH TO ACCOMMODATE THE HEIGHT OF THE MOTHERBOARD COMPONENTS PLUS .17 (ASSUMING NO COMPONENTS ARE UNDER THE RJ-45 CONNECTOR).
- MATING CONNECTORS OR SOCKETS SHOULD ACCOMMODATE THE APPROPRIATE RANGE OF PIN INSERTION DEPTH. THE RANGE IS DEPENDENT ON STANDOFF LENGTH AND CONNECTOR HEIGHT. ASSUMING THE TOTAL TOLERANCE FOR THESE DIMENSIONS IS +.010, THE MINIMUM PIN INSERTION DEPTH WOULD BE (.3 + CONNECTOR HEIGHT - STANDOFF LENGTH). THE MAXIMUM DEPTH WOULD BE .05 GREATER THAN THE MINIMUM.

APPLICATION SAMPLE 2
MOTHERBOARD, .33 COMPONENT HEIGHT UNDER MODULE.

COMPONENT SIDE
OF MOTHERBOARD SHOWN

- .113 MTG HOLE (4 PLACES)
- OUTLINE OF MODULE
- 20 CXT. 100 X .100
- RECEPTACLE
- SAMTEC SSQ-105-L-D

OPTIONAL (QTY 3 EACH):
4-40 X .31 PAN HEAD SCREW
MCMASTER P/N 91772A107
+ #4 INSULATING WASHER, SMALL
MCMASTER P/N 90295A059

MOTHERBOARD

OPTIONAL (QTY 3 EACH):
4-40 X .31 PAN HEAD SCREW
MCMASTER P/N 91772A107
+ #4 INSULATING WASHER, SMALL
MCMASTER P/N 90295A059

.39 MAX MOTHERBOARD COMPONENT HEIGHT (.26 WHEN CONNECTORS ARE MATED WITHOUT STANDOFFS)