STANDOFFS SHOULD BE OF A MINIMUM LENGTH TO ACCOMMODATE THE HEIGHT OF THE MOTHERBOARD COMPONENTS PLUS .07. APPLICATION EXAMPLES ON SHEETS 2 AND 3 ALLOW FOR MOTHERBOARD COMPONENT HIGHTS OF .43 AND .11 RESPECTIVELY.

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 (.31 + CONNECTOR HEIGHT - STANDOFF LENGTH). THE MAXIMUM DEPTH WOULD BE .05 GREATER THAN THE MINIMUM.

SOLDER SIDE OF MODULE SHOWN

J1

J2

J3

© 125 MTG HOLE
OPTIONAL: USE .19 OD #4 INSULATING STANDOFF ON FAR SIDE, AND .22 MAX OD #4 INSULATING WASHER WITH #4 PAN HEAD SCREW ON NEAR SIDE.

50 POSITION
100 X 100 HEADER MOUNTED ON FAR SIDE (2 PLACES)
APPLICATION SAMPLE 1

.43 MAXIMUM MOTHERBOARD COMPONENT HEIGHT

OUTLINE OF MODULE

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

OPTIONAL: .19 OD X .500 LONG
4-40 INSULATING STANDOFF
LYN-TRON P/N
NY6940-0440-0.500-00

COMPONENT SIDE OF MOTHERBOARD SHOWN

50 CKT .100 X .100 RECEPTACLE
SAMTEC SSQ-125-L-D

OPTIONAL: .114 MTG HOLE
(2 PLACES)
APPLICATION SAMPLE 2
MINIMUM STACK HEIGHT (.11 MAX MOTHERBOARD COMPONENT HEIGHT)

COMPONENT SIDE OF MOTHERBOARD SHOWN

Socket for .025 sq pin
MIL-MAX P/N 0285-0-15-80-16-27-10-0
(110 places)

Optional: Ø .114 mtg hole
(2 places)

Optional: 4-40 x .31
Pan head screw
MCMASTER P/N 91772A107
+
#4 insulating
washer, small
MCMASTER 90295A059

Optional:
4-40 x .31
Pan head screw
MCMASTER P/N 91772A107
+
#4 insulating
washer, small
MCMASTER 90295A059

Optional: .19 OD x .187 long
4-40 insulating
standoff
LYN-TRON P/N
NY6940-0440-0.187-00

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Customer drawing
Model MODM7AE70

5405 Morehouse Dr., Ste. 200
San Diego, CA 92121
(858) 558-0293