

**MIN-E-CON NMR SERIES NANO CONNECTOR****CLICK ON DESCRIPTION TO GO TO SPEC PAGE**

SK030050-01 NMR1 &amp; NMR2 CABLE MOUNTED

SK030050-02 NMR1 ' CBR' PLUG PC BOARD RIGHT ANGLE MOUNT

SK030050-03 NMR1 ' ST' PLUG PC BOARD VERTICAL MOUNT

SK030050-04 NMR1 ' CBR' RECEPTACLE PC BOARD RIGHT ANGLE MOUNT

SK030050-05 NMR1 ' ST' RECEPTACLE PC BOARD VERTICAL MOUNT

SK030050-06 NMR2 ' CBR' PLUG PC BOARD RIGHT ANGLE MOUNT

Ⓑ SK030050-07 NMR2 ' ST' PLUG PC BOARD VERTICAL MOUNT

Ⓑ SK030050-08 NMR2 ' CBR' RECEPTACLE PC BOARD RIGHT ANGLE MOUNT

Ⓑ SK030050-09 NMR2 ' ST' RECEPTACLE PC BOARD VERTICAL MOUNT

SK030050-10 NMR1 &amp; NMR2 JUMPER/EXTENDER ASSEMBLY

SK030050-11 NMR1 &amp; NMR2 CONNECTOR SAVER

17312 EASTMAN  
IRVINE, CA 92614

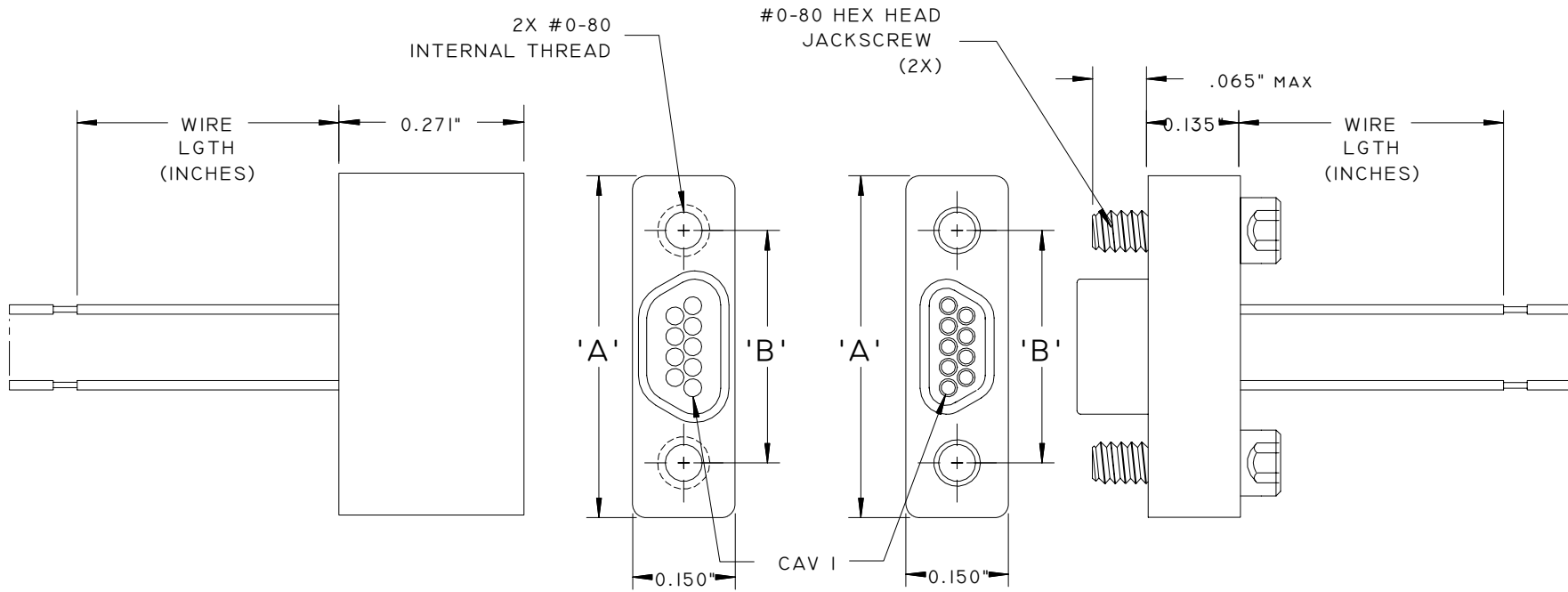
DWG TITLE

NANO NMR SERIES  
TABLE OF CONTENTS

| SIZE  | FSCM NO. | DWG NO.  | REV    |
|-------|----------|----------|--------|
| A     | 54455    | SK030050 | B      |
| SCALE | NONE     | SHEET    | 1 OF 1 |

# NMR\* PLUG & RECEPTACLE

CONFIGURATION VIEW



## SOCKET (RECEPTACLE)

## PIN (PLUG)

| CONNECTOR SIZE | DIMENSION A<br>+/- .005 |      | DIMENSION B<br>+/- .005 |      |
|----------------|-------------------------|------|-------------------------|------|
|                | NMR1                    | NMR2 | NMR1                    | NMR2 |
|                | 9                       | .480 | .500                    | .320 |
| 15             | .555                    | .590 | .395                    | .430 |
| 21             | .630                    | .680 | .470                    | .520 |
| 25             | .680                    | .740 | .520                    | .580 |
| 31             | .755                    | .830 | .595                    | .670 |
| 37             | .830                    | .920 | .670                    | .760 |

NMR1 HAS .025" CENTER CONTACTS  
NMR2 HAS .030" CENTER CONTACTS

MATERIAL:

- A) INSULATOR: RYTON.
- B) SHELL: 300 SERIES STAINLESS STEEL.
- C) CONTACTS: GOLD PLATED COPPER.
- D) WIRE: 30 OR 32 AWG SOLID OR STRANDED.
- E) EPOXY: HYSOL EE4215 (125°C) OR MEC SPECIAL HI-TEMP (175°C).
- F) HARDWARE: 300 SERIES STAINLESS STEEL.



17312 EASTMAN  
IRVINE, CA 92614

|  |          |              |     |
|--|----------|--------------|-----|
| DWG TITLE                                    |          |              |     |
| NMR* PLUG & RECEPTACLE<br>9-37 CABLE MOUNTED |          |              |     |
| SIZE   | FSCM NO. | DWG NO.      | REV |
| A  | 54455    | SK030050-01  | A   |
| SCALE NONE                                   |          | SHEET 1 OF 2 |     |

# NMR\* PLUG & RECEPTACLE

## PART NUMBER ORDERING SYSTEM

N M R 2 - 9 P 0 E 5 - 18.0 H /01

**SERIES**

N = NANO

**INSUL STYLE**

M = METAL SHELL

**INSULATOR MATERIAL**

R = POLYPHENYLENE SULFIDE (RYTON)

**CONTACT CENTERS**

1 = 0.025" CENTERS  
2 = 0.030" CENTERS

**# OF CAVITIES**

9, 15, 21, 25, 31, 37

**GENDER**

P = PIN (PLUG)  
S = SOCKET (RECEPTACLE)

**WIRE GAUGE (AWG)**

0 = 30 AWG  
2 = 32 AWG

**MODIFIER**

/01 = HIGH TEMPERATURE (I75C) EPOXY  
BLANK = STANDARD EPOXY (I25C)

**HARDWARE**

H = #0-80 LOW HEX JACKSCREW  
T = #0-80 INTERNAL THREADS  
BLANK = .067" DIAMETER MOUNTING HOLE

**WIRE LENGTH**

INCHES MINIMUM

**WIRE COLOR/FINISH**

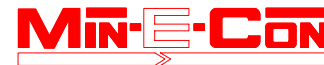
1 = ALL WHITE  
2 = ALL YELLOW  
3 = TIN PLATED  
4 = GOLD PLATED  
5 = COLOR CODED PER MIL-STD 681 SYSTEM I (NOTE 1)  
6 = 10 COLOR REPEAT

**WIRE TYPE**

C = SOLID COPPER TIN PLATED PER QQ-W-343  
E = 7 STRAND TYPE 'E' TEFLON PER M16878/4 (NOTE 2)  
F = 7 STRAND TYPE 'ET' TEFLON PER M16878/6  
M = 7 STRAND PER M22759/33 (NOTE 3)

**NOTES:**

1. WIRE TYPE 'E' AND 'F' ONLY
2. NMR2 (.030" CENTERS) ONLY WHEN ORDERING 30 AWG
3. 30 AWG ONLY



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IRVINE, CA 92614

DWG TITLE

NMR\* PLUG & RECEPTACLE  
9-37 CABLE MOUNTED

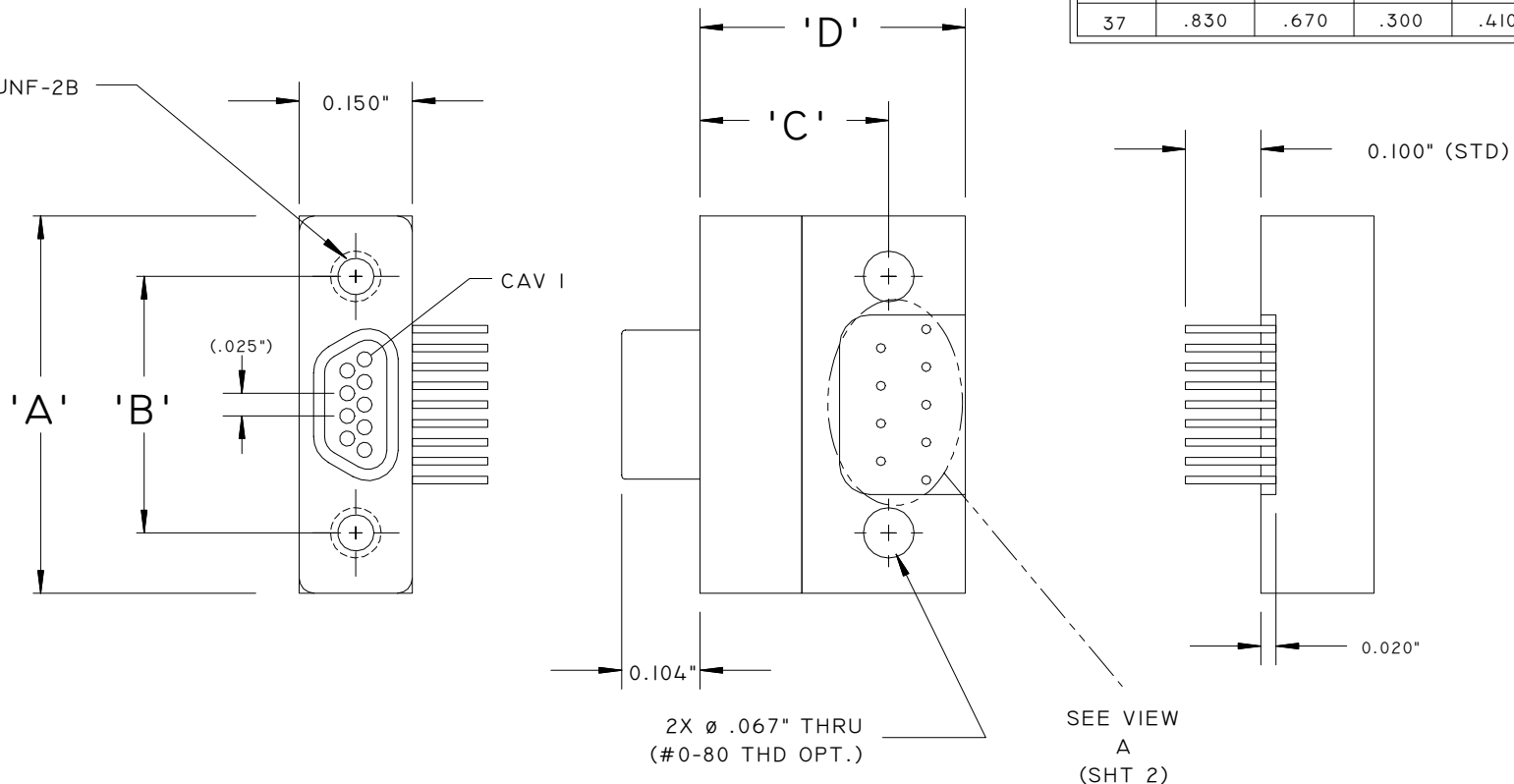
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|------------------|--------------------------|-------------------------------|-----------------|
| SIZE<br><b>A</b> | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-01</b> | REV<br><b>A</b> |
| SCALE NONE       |                          | SHEET 2 OF 2                  |                 |

# NMRI 'CBR' (PLUG)

CONFIGURATION VIEW

| CONN SIZE | A<br>=/- .005 | B<br>=/- .005 | C<br>=/- .010 | D<br>MAX |
|-----------|---------------|---------------|---------------|----------|
| 9         | .480          | .320          | .250          | .360     |
| 15        | .555          | .395          | .300          | .360     |
| 21        | .630          | .470          | .300          | .360     |
| 25        | .680          | .520          | .300          | .360     |
| 31        | .755          | .595          | .300          | .410     |
| 37        | .830          | .670          | .300          | .410     |

2X #0-80 UNF-2B



NOTES:

1. MATERIAL:

- A) INSULATOR AND TERMINATION BOX: RYTON.
- B) SHELL: 300 SERIES STAINLESS STEEL.
- C) CONTACT: GOLD PLATED COPPER.
- D) WIRE: 30 AWG SOLID COPPER TIN PLATED.
- E) EPOXY: HYSOL EE4215 (STD) OR MEC SPECIAL HI-TEMP (175°C).

2. SEE SHEET 2 FOR PART NUMBER ORDERING SYSTEM AND VIEW OF TERMINATION LAYOUT.



17312 EASTMAN  
IRVINE, CA 92614

DWG TITLE

NMRI (.025") 'CBR' PLUG  
PC BOARD RIGHT ANGLE MOUNT

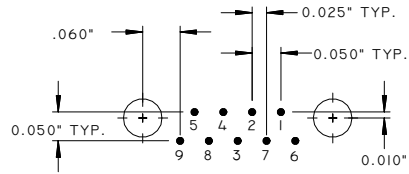
|                  |                          |                               |                 |
|------------------|--------------------------|-------------------------------|-----------------|
| SIZE<br><b>A</b> | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-02</b> | REV<br><b>A</b> |
| SCALE NONE       |                          | SHEET 1 OF 2                  |                 |

**NMRI 'CBR' (PLUG)**

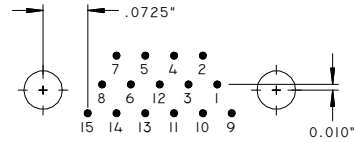
TERMINATION LAYOUT

**VIEW A**

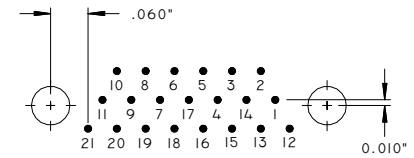
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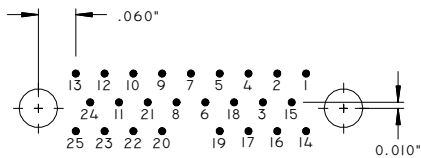
9 CONTACT



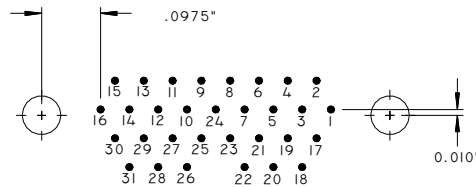
15 CONTACT



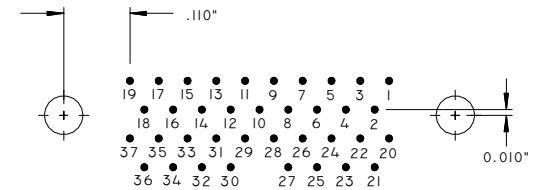
21 CONTACT



25 CONTACT

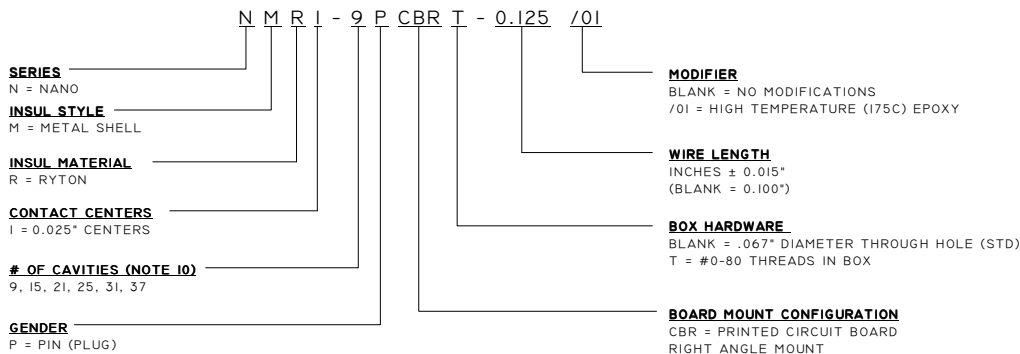


31 CONTACT



37 CONTACT

**PART NUMBER ORDERING SYSTEM**



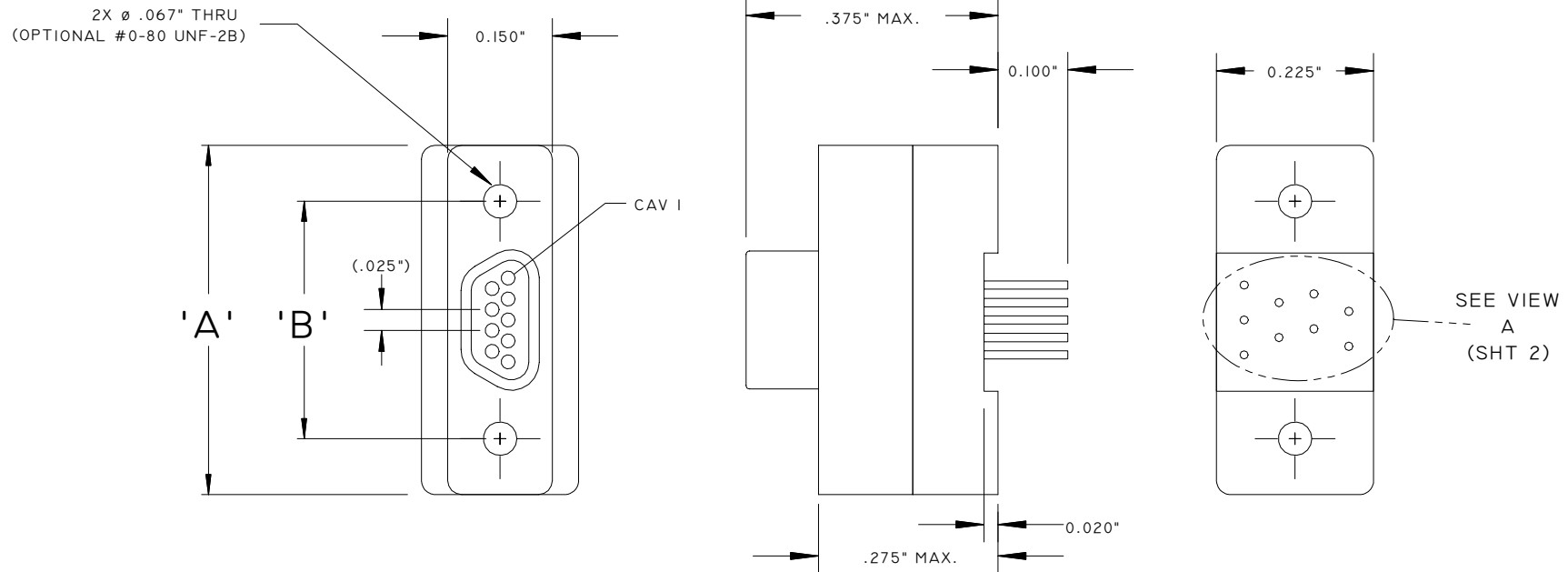
17312 EASTMAN  
IRVINE, CA 92614

|   |          |             |        |
|---|----------|-------------|--------|
| DWG TITLE   |          |             |        |
| NMRI (.025") 'CBR' PLUG<br>PC BOARD RIGHT ANGLE MOUNT |          |             |        |
| SIZE  | FSCM NO. | DWG NO.     | REV    |
| A   | 54455    | SK030050-02 | A      |
| SCALE   | NONE     | SHEET       | 2 OF 2 |

# NMRI 'ST' (PLUG)

CONFIGURATION VIEW

| CONNECTOR SIZE | A<br>=/- .005 | B<br>=/- .005 |
|----------------|---------------|---------------|
| 9              | .480          | .320          |
| 15             | .555          | .395          |
| 21             | .630          | .470          |
| 25             | .680          | .520          |
| 31             | .755          | .595          |
| 37             | .830          | .670          |



NOTES:

1. MATERIAL:

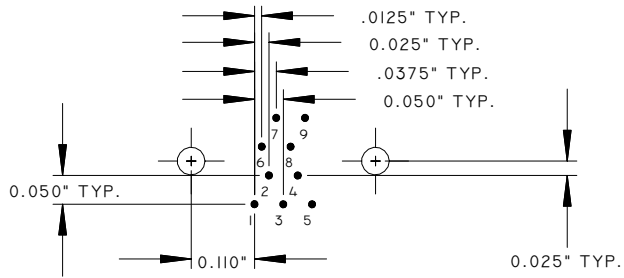
- A) INSULATOR AND TERMINATION BOX: RYTON.
- B) SHELL: 300 SERIES STAINLESS STEEL.
- C) CONTACT: GOLD PLATED COPPER.
- D) WIRE: 30 AWG SOLID COPPER TIN PLATED.
- E) EPOXY: HYSOL EE4215 (STD) OR MEC SPECIAL HI-TEMP (175°C).

- 2. SEE SHEET 2 FOR PART NUMBER ORDERING SYSTEM AND VIEW OF TERMINATION LAYOUT.

|  |                          |                                   |                 |
|--|--------------------------|-----------------------------------|-----------------|
| <b>MIN-E-CON</b>   |                          | 17312 EASTMAN<br>IRVINE, CA 92614 |                 |
| DWG TITLE<br><b>NMRI (.025") 'ST' PLUG<br/>PC BOARD VERTICAL MOUNT</b> |                          |                                   |                 |
| SIZE<br><b>A</b>   | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-03</b>     | REV<br><b>A</b> |
| SCALE NONE   |                          | SHEET 1 OF 2                      |                 |

**NMRI 'ST' (PLUG)**

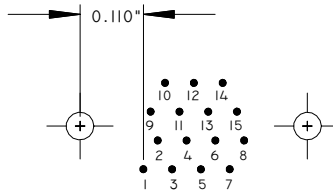
TERMINATION LAYOUT



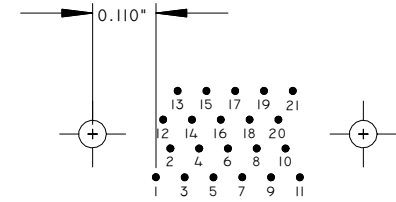
9 CONTACT

**VIEW A**

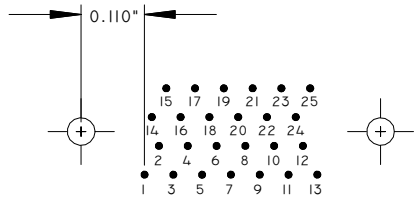
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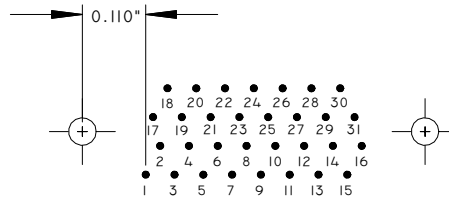
15 CONTACT



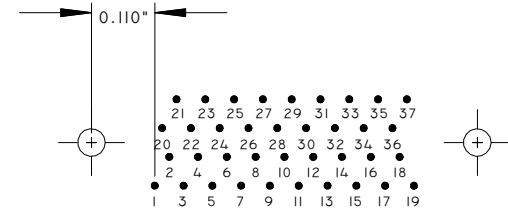
21 CONTACT



25 CONTACT

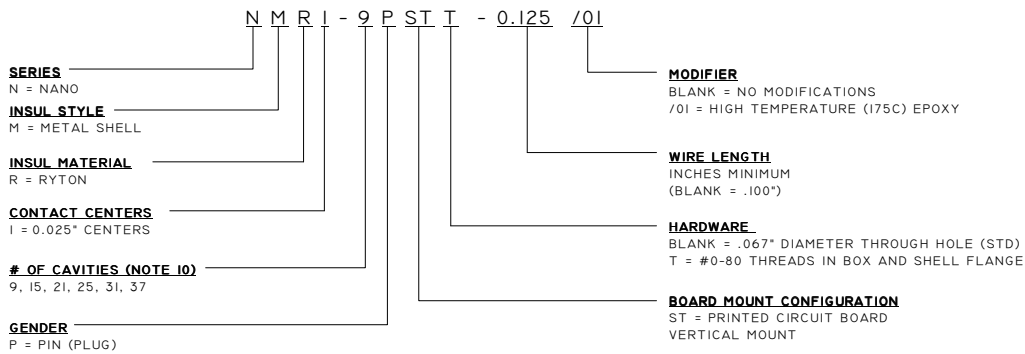


31 CONTACT



37 CONTACT

**PART NUMBER ORDERING SYSTEM**



17312 EASTMAN  
IRVINE, CA 92614

DWG TITLE

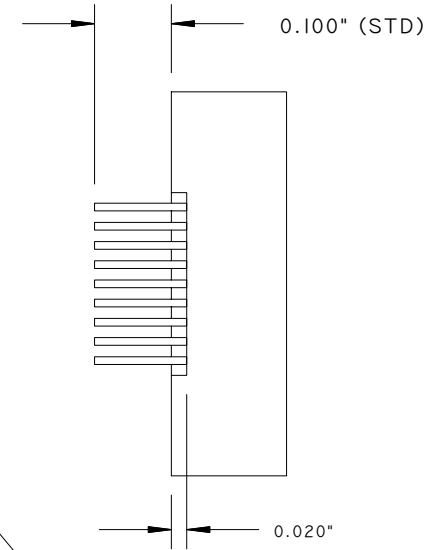
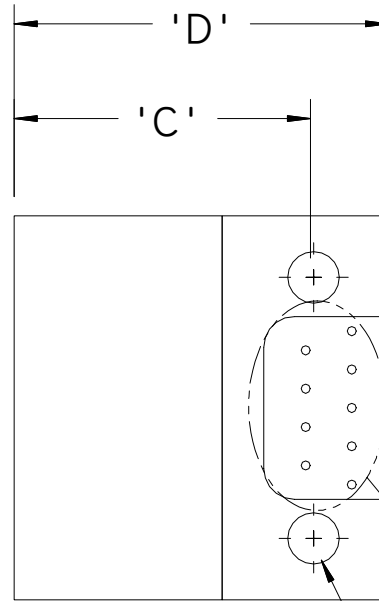
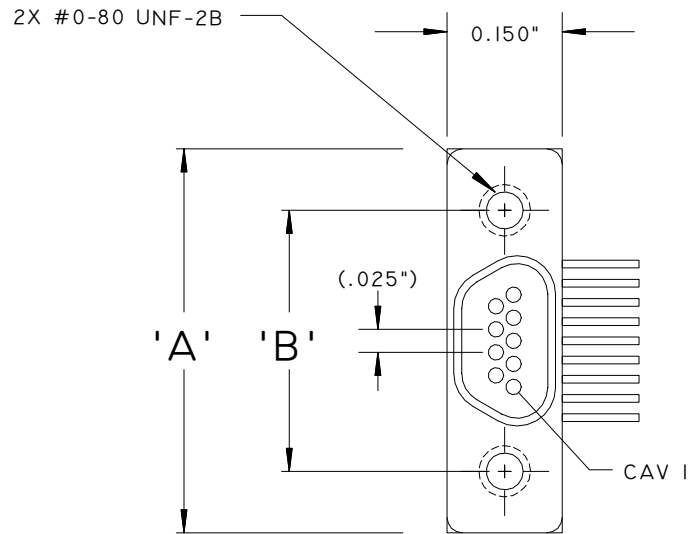
NMRI (.025") 'ST' PLUG  
PC BOARD VERTICAL MOUNT

|                  |                          |                               |                 |
|------------------|--------------------------|-------------------------------|-----------------|
| SIZE<br><b>A</b> | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-03</b> | REV<br><b>A</b> |
| SCALE<br>NONE    | SHEET<br>2 OF 2          |                               |                 |

# NMRI 'CBR' (RECEPTACLE)

CONFIGURATION VIEW

| CONN SIZE | A<br>=/- .005 | B<br>=/- .005 | C<br>=/- .010 | D<br>MAX |
|-----------|---------------|---------------|---------------|----------|
| 9         | .480          | .320          | .390          | .500     |
| 15        | .555          | .395          | .440          | .500     |
| 21        | .630          | .470          | .440          | .500     |
| 25        | .680          | .520          | .440          | .500     |
| 31        | .755          | .595          | .440          | .550     |
| 37        | .830          | .670          | .440          | .550     |



4X  $\varnothing$  .067" THRU  
(#0-80 THD OPT.)

SEE VIEW  
A  
(SHT 2)

NOTES:

1. MATERIAL:

- A) INSULATOR AND TERMINATION BOX: RYTON.
- B) SHELL: 300 SERIES STAINLESS STEEL.
- C) CONTACT: GOLD PLATED COPPER.
- D) WIRE: 30 AWG SOLID COPPER TIN PLATED.
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- 2. SEE SHEET 2 FOR PART NUMBER ORDERING SYSTEM AND VIEW OF TERMINATION LAYOUT.



17312 EASTMAN  
IRVINE, CA 92614

|   |          |              |     |
|---|----------|--------------|-----|
| DWG TITLE   |          |              |     |
| NMRI (.025") 'CBR' RECEPTACLE<br>PC BOARD RIGHT ANGLE MOUNT |          |              |     |
| SIZE  | FSCM NO. | DWG NO.      | REV |
| A   | 54455    | SK030050-04  | A   |
| SCALE NONE  |          | SHEET 1 OF 2 |     |

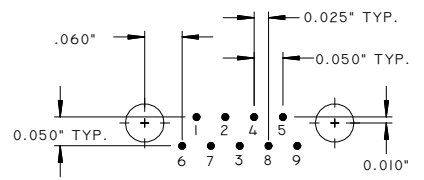


# NMRI 'CBR' (RECEPTACLE)

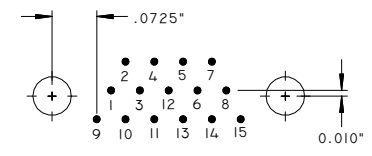
TERMINATION LAYOUT

# VIEW A

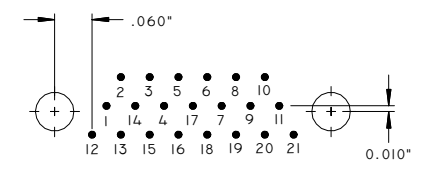
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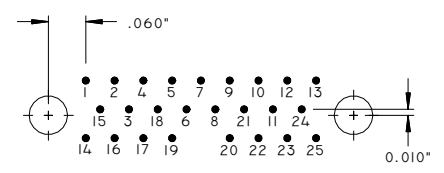
9 CONTACT



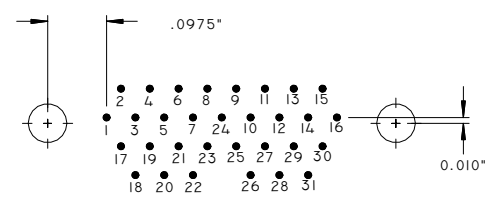
15 CONTACT



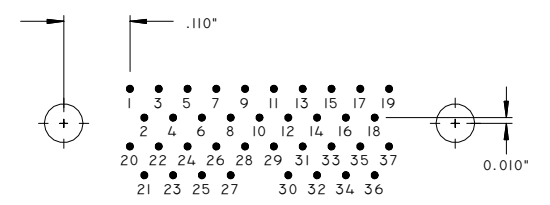
21 CONTACT



25 CONTACT

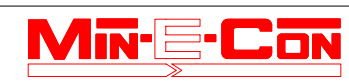
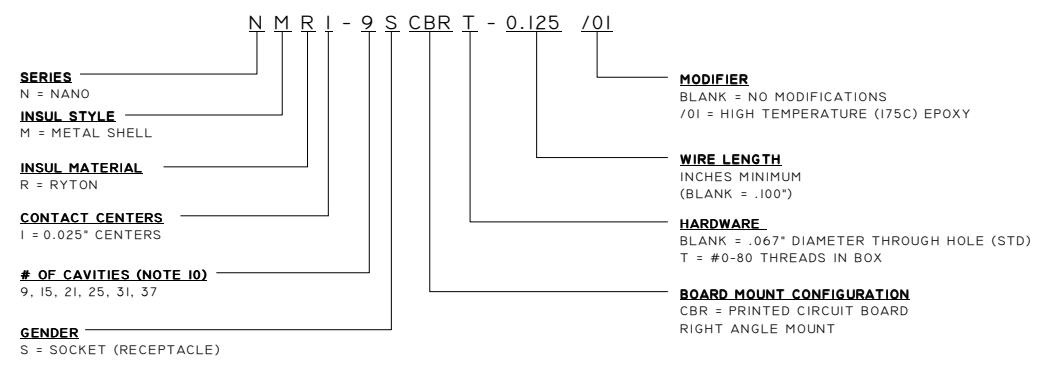


31 CONTACT



37 CONTACT

## PART NUMBER ORDERING SYSTEM



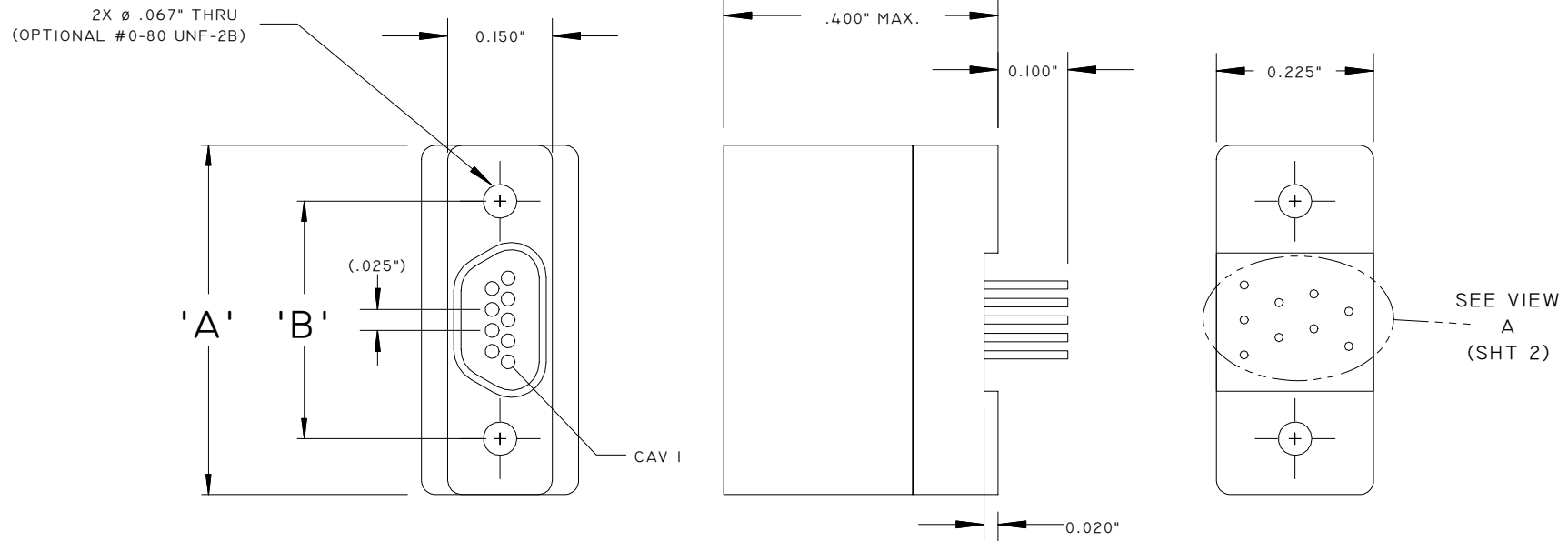
17312 EASTMAN  
IRVINE, CA 92614

|   |          |             |        |
|---|----------|-------------|--------|
| DWG TITLE   |          |             |        |
| NMRI (.025") 'CBR' RECEPTACLE<br>PC BOARD RIGHT ANGLE MOUNT |          |             |        |
| SIZE  | FSCM NO. | DWG NO.     | REV    |
| A   | 54455    | SK030050-04 | A      |
| SCALE   | NONE     | SHEET       | 2 OF 2 |

# NMRI 'ST' (RECEPTACLE)

CONFIGURATION VIEW

| CONNECTOR SIZE | A<br>=/- .005 | B<br>=/- .005 |
|----------------|---------------|---------------|
| 9              | .480          | .320          |
| 15             | .555          | .395          |
| 21             | .630          | .470          |
| 25             | .680          | .520          |
| 31             | .755          | .595          |
| 37             | .830          | .670          |



NOTES:

1. MATERIAL:

- A) INSULATOR AND TERMINATION BOX: RYTON.
- B) SHELL: 300 SERIES STAINLESS STEEL.
- C) CONTACT: GOLD PLATED COPPER.
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- E) EPOXY: HYSOL EE4215 (STD) OR MEC SPECIAL HI-TEMP (175°C).

- 2. SEE SHEET 2 FOR PART NUMBER ORDERING SYSTEM AND VIEW OF TERMINATION LAYOUT.

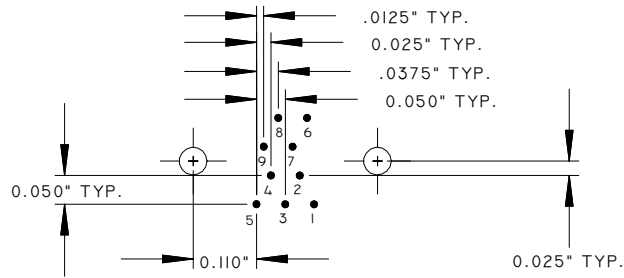


17312 EASTMAN  
IRVINE, CA 92614

|   |          |              |     |
|---|----------|--------------|-----|
| DWG TITLE   |          |              |     |
| NMRI (.025") 'ST' RECEPTACLE<br>PC BOARD VERTICAL MOUNT |          |              |     |
| SIZE  | FSCM NO. | DWG NO.      | REV |
| A   | 54455    | SK030050-05  | A   |
| SCALE NONE  |          | SHEET 1 OF 2 |     |

# NMRI 'ST' (RECEPTACLE)

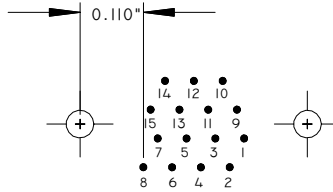
TERMINATION LAYOUT



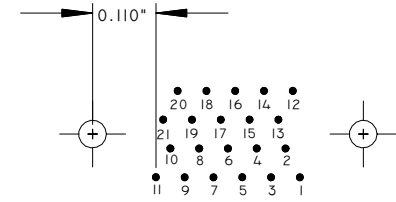
9 CONTACT

# VIEW A

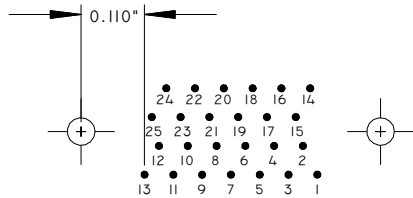
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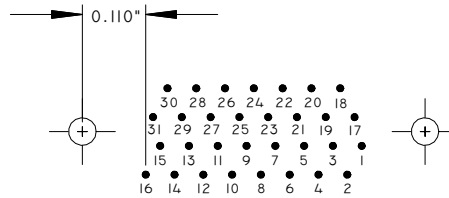
15 CONTACT



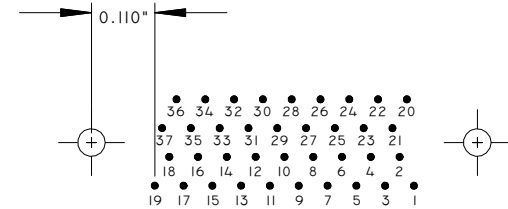
21 CONTACT



25 CONTACT

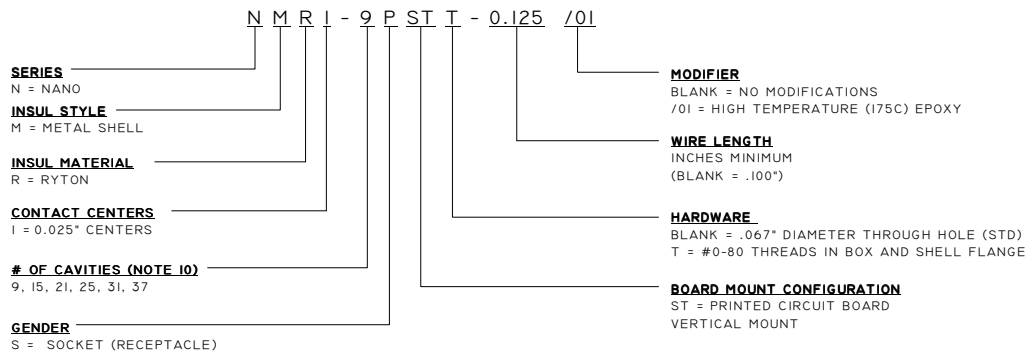


31 CONTACT



37 CONTACT

## PART NUMBER ORDERING SYSTEM



17312 EASTMAN  
IRVINE, CA 92614

DWG TITLE

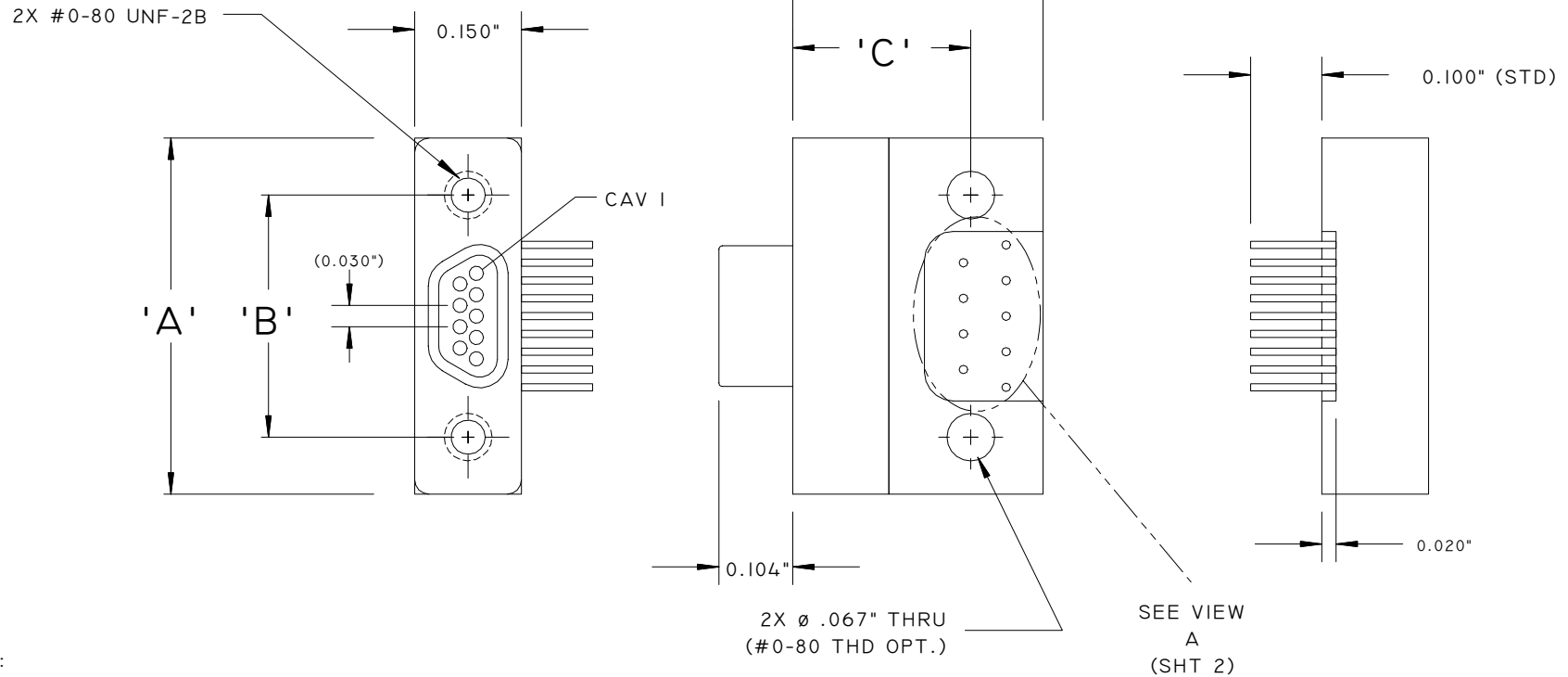
NMRI (.025") 'ST' RECEPTACLE  
PC BOARD VERTICAL MOUNT

|                  |                          |                               |                 |
|------------------|--------------------------|-------------------------------|-----------------|
| SIZE<br><b>A</b> | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-05</b> | REV<br><b>A</b> |
| SCALE NONE       |                          | SHEET 2 OF 2                  |                 |

# NMR2 'CBR' (PLUG)

CONFIGURATION VIEW

| CONN SIZE | A<br>=/- .005 | B<br>=/- .005 | C<br>=/- .010 | D<br>MAX |
|-----------|---------------|---------------|---------------|----------|
| 9         | .500          | .340          | .250          | .370     |
| 15        | .590          | .430          | .310          | .370     |
| 21        | .680          | .520          | .310          | .370     |
| 25        | .740          | .580          | .310          | .370     |
| 31        | .830          | .670          | .310          | .430     |
| 37        | .920          | .760          | .310          | .430     |



NOTES:

1. MATERIAL:
  - A) INSULATOR AND TERMINATION BOX: RYTON.
  - B) SHELL: 300 SERIES STAINLESS STEEL.
  - C) CONTACT: GOLD PLATED COPPER.
  - D) WIRE: 30 AWG SOLID COPPER TIN PLATED.
  - E) EPOXY: HYSOL EE4215 (STD) OR MEC SPECIAL HI-TEMP (175°C).
2. SEE SHEET 2 FOR PART NUMBER ORDERING SYSTEM AND VIEW OF TERMINATION LAYOUT.



17312 EASTMAN  
IRVINE, CA 92614

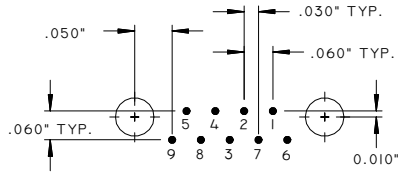
|   |          |              |     |
|---|----------|--------------|-----|
| DWG TITLE   |          |              |     |
| NMR2 (.030") 'CBR' PLUG<br>PC BOARD RIGHT ANGLE MOUNT |          |              |     |
| SIZE  | FSCM NO. | DWG NO.      | REV |
| A   | 54455    | SK030050-06  | A   |
| SCALE NONE  |          | SHEET 1 OF 2 |     |

### NMR2 'CBR' (PLUG)

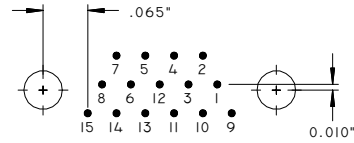
TERMINATION LAYOUT

### VIEW A

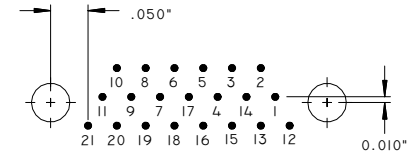
(ROTATED 90° CW)



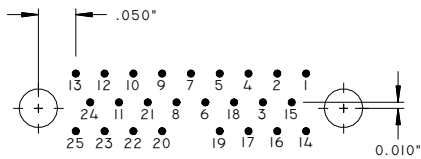
9 CONTACT



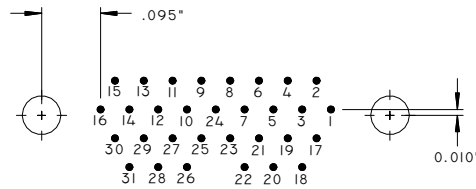
15 CONTACT



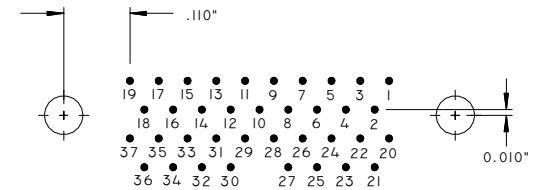
21 CONTACT



25 CONTACT

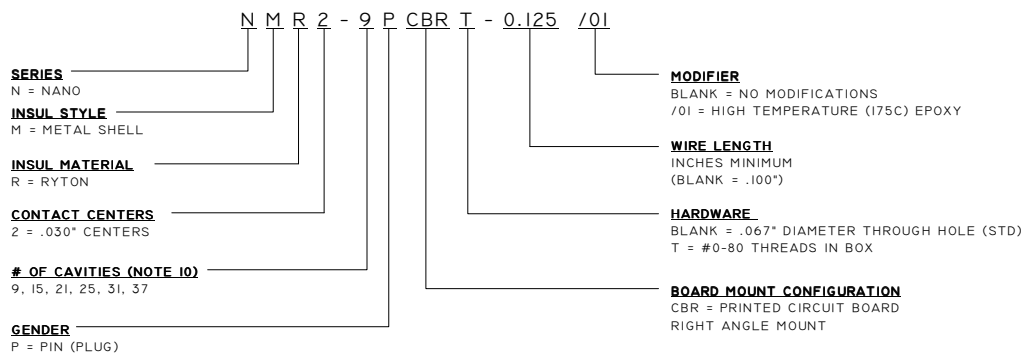


31 CONTACT



37 CONTACT

### PART NUMBER ORDERING SYSTEM



17312 EASTMAN  
IRVINE, CA 92614

DWG TITLE

NMR2 (.030") 'CBR' PLUG  
PC BOARD RIGHT ANGLE MOUNT

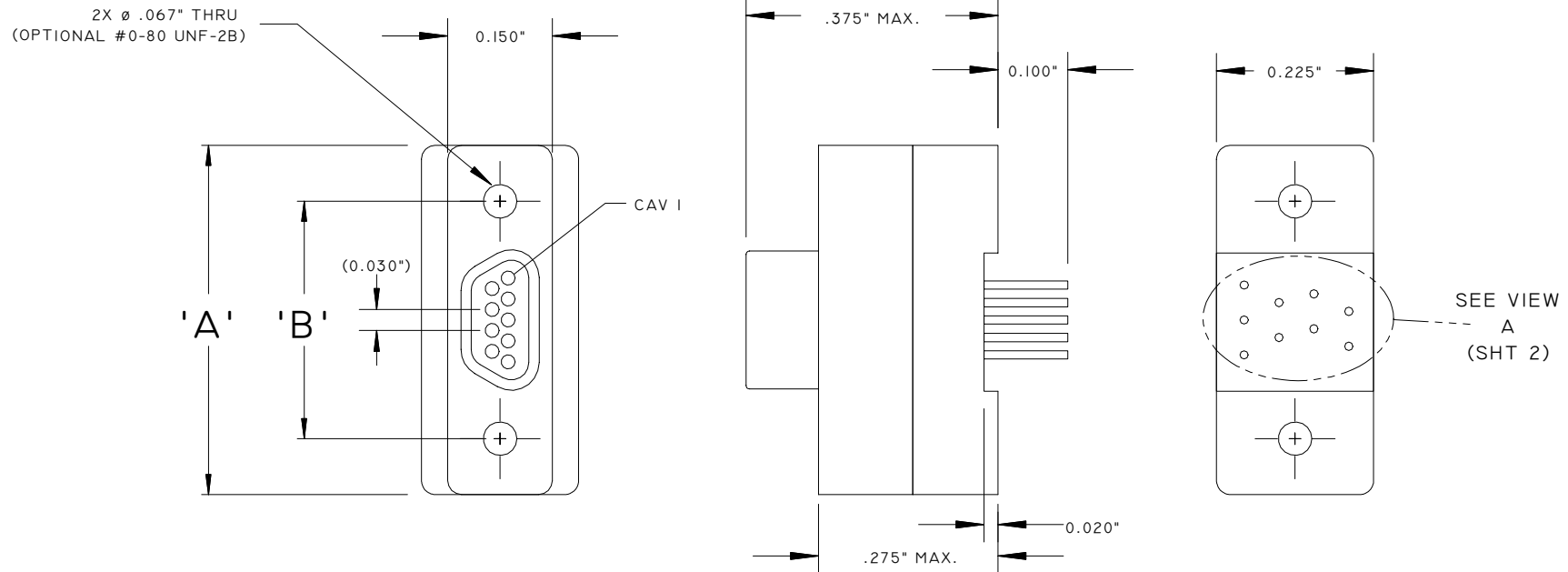
|                  |                          |                               |                 |
|------------------|--------------------------|-------------------------------|-----------------|
| SIZE<br><b>A</b> | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-06</b> | REV<br><b>A</b> |
| SCALE<br>NONE    | SHEET<br>2 OF 2          |                               |                 |

# NMR2 'ST' (PLUG)

CONFIGURATION VIEW

ⓑ

| CONNECTOR SIZE | A<br>=/- .005 | B<br>=/- .005 |
|----------------|---------------|---------------|
| 9              | .500          | .340          |
| 15             | .590          | .430          |
| 21             | .680          | .520          |
| 25             | .740          | .580          |
| 31             | .830          | .670          |
| 37             | .920          | .760          |



NOTES:

1. MATERIAL:

- A) INSULATOR AND TERMINATION BOX: RYTON.
- B) SHELL: 300 SERIES STAINLESS STEEL.
- C) CONTACT: GOLD PLATED COPPER.
- D) WIRE: 30 AWG SOLID COPPER TIN PLATED.
- E) EPOXY: HYSOL EE4215 (STD) OR MEC SPECIAL HI-TEMP (175°C).

- 2. SEE SHEET 2 FOR PART NUMBER ORDERING SYSTEM AND VIEW OF TERMINATION LAYOUT.

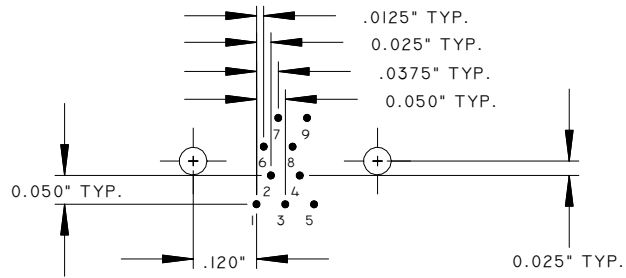


17312 EASTMAN  
IRVINE, CA 92614

|   |          |              |     |
|---|----------|--------------|-----|
| DWG TITLE   |          |              |     |
| NMR2 (.030") 'ST' PLUG<br>PC BOARD VERTICAL MOUNT |          |              |     |
| SIZE  | FSCM NO. | DWG NO.      | REV |
| A   | 54455    | SK030050-07  | B   |
| SCALE NONE  |          | SHEET 1 OF 2 |     |

### NMR2 'ST' (PLUG)

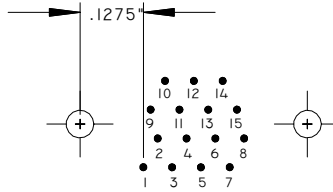
TERMINATION LAYOUT



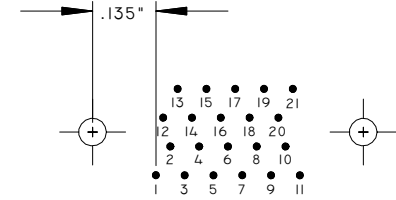
9 CONTACT

### VIEW A

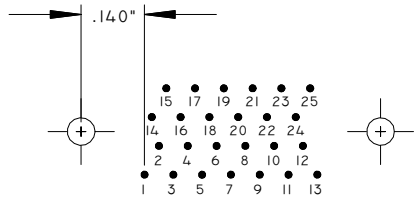
(ROTATED 90° CCW)



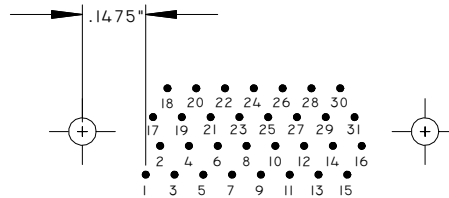
15 CONTACT



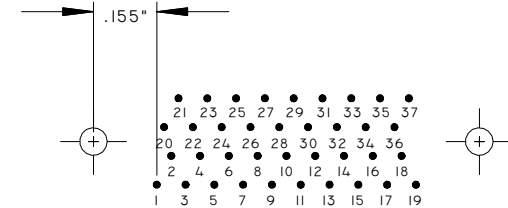
21 CONTACT



25 CONTACT

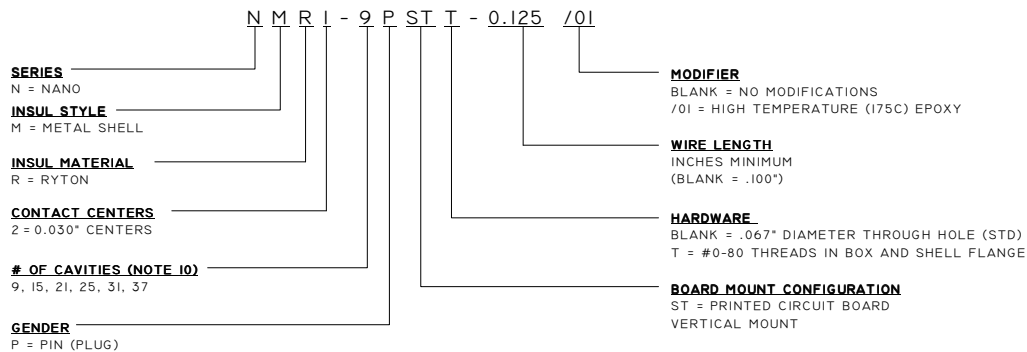


31 CONTACT



37 CONTACT

### PART NUMBER ORDERING SYSTEM



17312 EASTMAN  
IRVINE, CA 92614

DWG TITLE

NMR2 (.030") 'ST' PLUG  
PC BOARD VERTICAL MOUNT

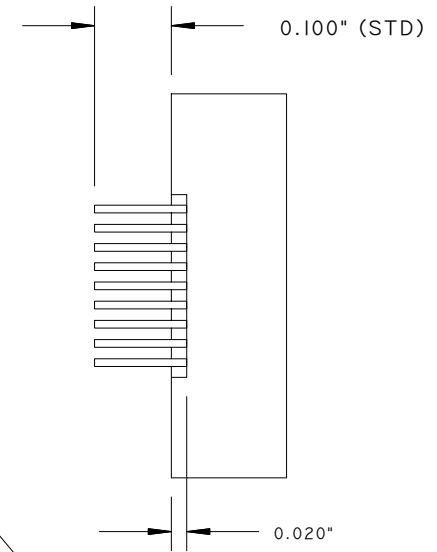
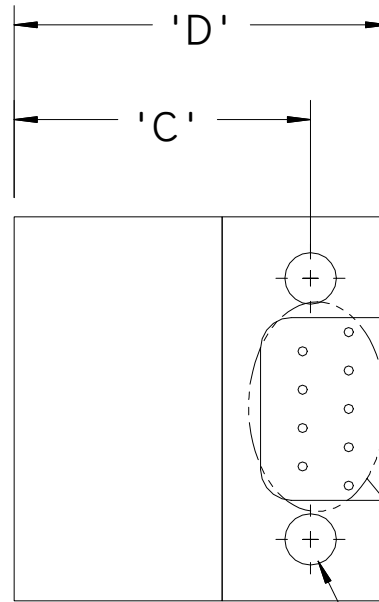
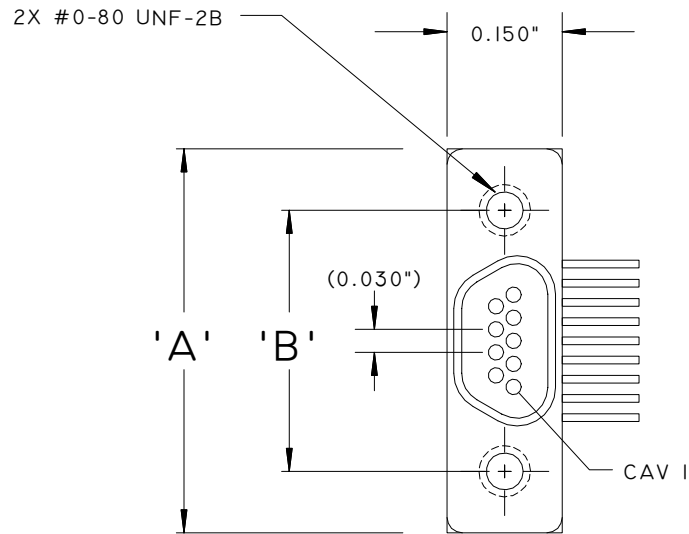
|                  |                          |                               |                 |
|------------------|--------------------------|-------------------------------|-----------------|
| SIZE<br><b>A</b> | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-07</b> | REV<br><b>A</b> |
| SCALE NONE       |                          | SHEET 2 OF 2                  |                 |

Ⓑ

# NMR2 'CBR' (RECEPTACLE)

CONFIGURATION VIEW

| CONN SIZE | A<br>=/- .005 | B<br>=/- .005 | C<br>=/- .010 | D<br>MAX |
|-----------|---------------|---------------|---------------|----------|
| 9         | .500          | .340          | .390          | .500     |
| 15        | .590          | .430          | .450          | .500     |
| 21        | .680          | .520          | .450          | .500     |
| 25        | .740          | .580          | .450          | .500     |
| 31        | .830          | .670          | .450          | .560     |
| 37        | .920          | .760          | .450          | .560     |



4X  $\varnothing$  .067" THRU  
(#0-80 THD OPT.)

SEE VIEW  
A  
(SHT 2)

NOTES:

1. MATERIAL:

- A) INSULATOR AND TERMINATION BOX: RYTON.
- B) SHELL: 300 SERIES STAINLESS STEEL.
- C) CONTACT: GOLD PLATED COPPER.
- D) WIRE: 30 AWG SOLID COPPER TIN PLATED.
- E) EPOXY: HYSOL EE4215 (STD) OR MEC SPECIAL HI-TEMP (175°C).

- 2. SEE SHEET 2 FOR PART NUMBER ORDERING SYSTEM AND VIEW OF TERMINATION LAYOUT.



17312 EASTMAN  
IRVINE, CA 92614

|   |          |              |     |
|---|----------|--------------|-----|
| DWG TITLE   |          |              |     |
| NMR2 (.030") 'CBR' RECEPTACLE<br>PC BOARD RIGHT ANGLE MOUNT |          |              |     |
| SIZE  | FSCM NO. | DWG NO.      | REV |
| A   | 54455    | SK030050-08  | B   |
| SCALE NONE  |          | SHEET 1 OF 2 |     |

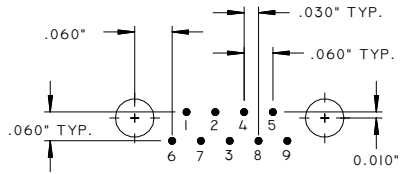


# NMR2 'CBR' (RECEPTACLE)

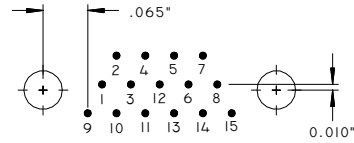
TERMINATION LAYOUT

# VIEW A

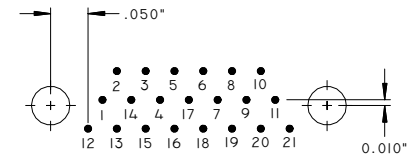
(ROTATED 90° CW)



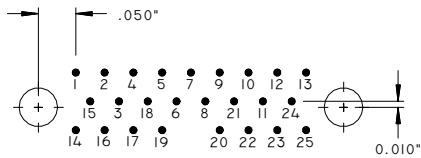
9 CONTACT



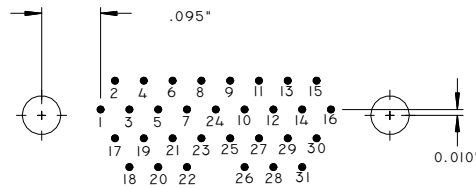
15 CONTACT



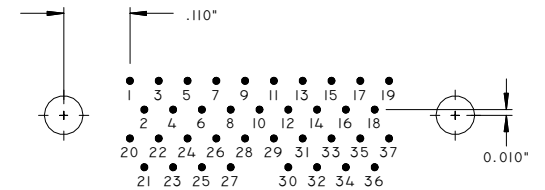
21 CONTACT



25 CONTACT

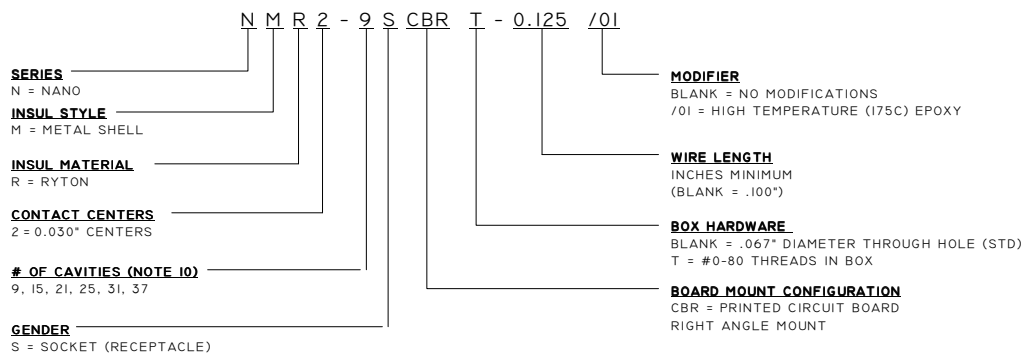


31 CONTACT



37 CONTACT

## PART NUMBER ORDERING SYSTEM



17312 EASTMAN  
IRVINE, CA 92614

DWG TITLE

NMR2 (.030") 'CBR' RECEPTACLE  
PC BOARD RIGHT ANGLE MOUNT

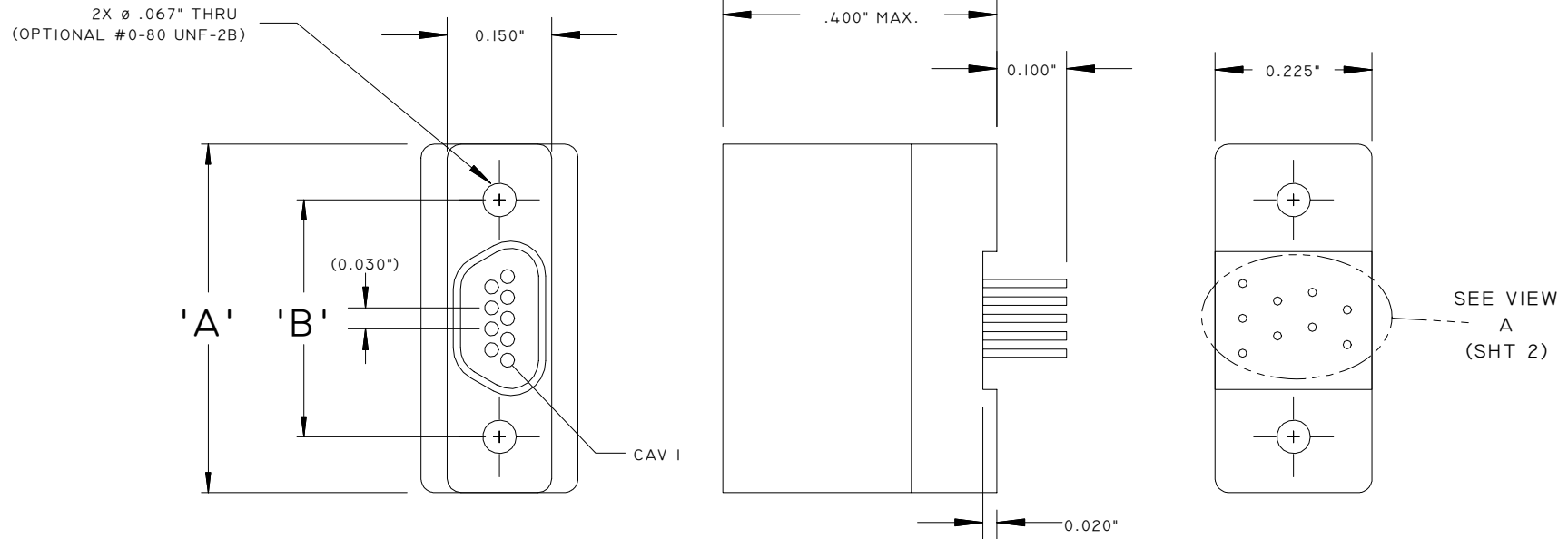
|                  |                          |                               |                 |
|------------------|--------------------------|-------------------------------|-----------------|
| SIZE<br><b>A</b> | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-08</b> | REV<br><b>A</b> |
| SCALE NONE       |                          | SHEET 2 OF 2                  |                 |

# NMR2 'ST' (RECEPTACLE)

CONFIGURATION VIEW

ⓑ

| CONNECTOR SIZE | A<br>=/- .005 | B<br>=/- .005 |
|----------------|---------------|---------------|
| 9              | .500          | .340          |
| 15             | .590          | .430          |
| 21             | .680          | .520          |
| 25             | .740          | .580          |
| 31             | .830          | .670          |
| 37             | .920          | .760          |



NOTES:

1. MATERIAL:

- A) INSULATOR AND TERMINATION BOX: RYTON.
- B) SHELL: 300 SERIES STAINLESS STEEL.
- C) CONTACT: GOLD PLATED COPPER.
- D) WIRE: 30 AWG SOLID COPPER TIN PLATED.
- E) EPOXY: HYSOL EE4215 (STD) OR MEC SPECIAL HI-TEMP (175°C).

- 2. SEE SHEET 2 FOR PART NUMBER ORDERING SYSTEM AND VIEW OF TERMINATION LAYOUT.



17312 EASTMAN  
IRVINE, CA 92614

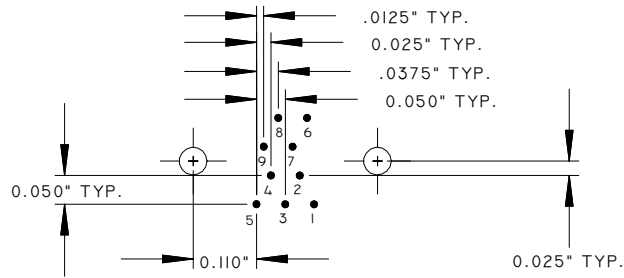
DWG TITLE

NMR2 (.030") 'ST' RECEPTACLE  
PC BOARD VERTICAL MOUNT

| SIZE       | FSCM NO. | DWG NO.      | REV |
|------------|----------|--------------|-----|
| A          | 54455    | SK030050-09  | B   |
| SCALE NONE |          | SHEET 1 OF 2 |     |

# NMR2 'ST' (RECEPTACLE)

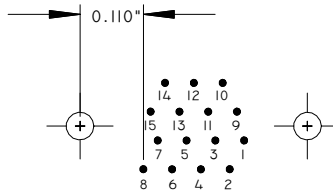
TERMINATION LAYOUT



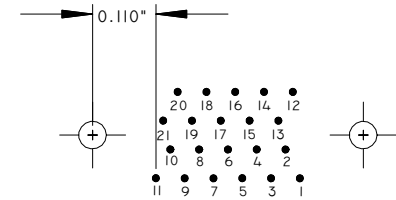
9 CONTACT

# VIEW A

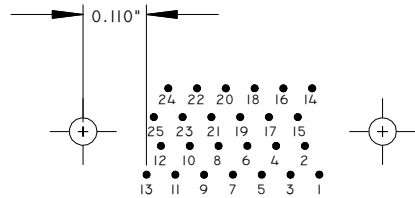
(ROTATED 90° CCW)



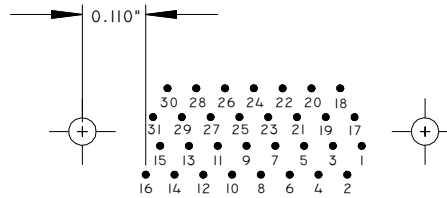
15 CONTACT



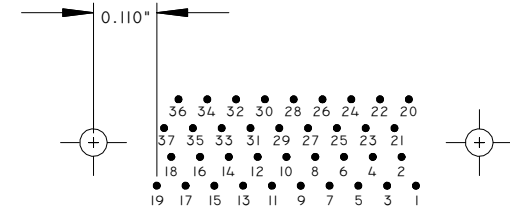
21 CONTACT



25 CONTACT



31 CONTACT



37 CONTACT

## PART NUMBER ORDERING SYSTEM

N M R I - 9 S T I - 0.125 /01

**SERIES**

N = NANO

**INSUL STYLE**

M = METAL SHELL

**INSUL MATERIAL**

R = RYTON

**CONTACT CENTERS**

I = 0.030" CENTERS

**# OF CAVITIES (NOTE 10)**

9, 15, 21, 25, 31, 37

**GENDER**

S = SOCKET (RECEPTACLE)

**MODIFIER**

BLANK = NO MODIFICATIONS

/01 = HIGH TEMPERATURE (175C) EPOXY

**WIRE LENGTH**

INCHES MINIMUM

(BLANK = .100")

**HARDWARE**

BLANK = .067" DIAMETER THROUGH HOLE (STD)

T = #0-80 THREADS IN BOX AND SHELL FLANGE

**BOARD MOUNT CONFIGURATION**

ST = PRINTED CIRCUIT BOARD

VERTICAL MOUNT



17312 EASTMAN  
IRVINE, CA 92614

DWG TITLE

NMR2 (.030") 'ST' RECEPTACLE  
PC BOARD VERTICAL MOUNT

|                  |                          |                               |                 |
|------------------|--------------------------|-------------------------------|-----------------|
| SIZE<br><b>A</b> | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-09</b> | REV<br><b>A</b> |
| SCALE NONE       |                          | SHEET 2 OF 2                  |                 |



# NMR\* JUMPER/EXTENDER

## PART NUMBER ORDERING SYSTEM

N M R 2 - 9 M 0 E 5 - 18.0 H /01

**SERIES**

N = NANO

**INSUL STYLE**

M = METAL SHELL

**INSULATOR MATERIAL**

R = POLYPHENYLENE SULFIDE (RYTON)

**CONTACT CENTERS**

1 = 0.025" CENTERS

2 = 0.030" CENTERS

**# OF CAVITIES**

9, 15, 21, 25, 31, 37

**GENDER**

M = JUMPER/EXTENDER

**WIRE GAUGE (AWG)**

0 = 30 AWG

2 = 32 AWG

**MODIFIER**

/01 = HIGH TEMPERATURE (I75C) EPOXY

BLANK = STANDARD EPOXY (I25C)

**HARDWARE**

H = #0-80 LOW HEX JACKSCREW - BOTH ENDS

T = #0-80 INTERNAL THREADS - BOTH ENDS

BLANK = .067" DIAMETER MOUNTING HOLE - BOTH ENDS

**WIRE LENGTH**

INCHES MINIMUM

**WIRE COLOR/FINISH**

1 = ALL WHITE

2 = ALL YELLOW

3 = (NOT USED)

4 = (NOT USED)

5 = COLOR CODED PER MIL-STD 681 SYSTEM I (NOTE 1)

6 = 10 COLOR REPEAT

**WIRE TYPE**

E = 7 STRAND TYPE 'E' TEFLON PER M16878/4 (NOTE 2)

F = 7 STRAND TYPE 'ET' TEFLON PER M16878/6

M = 7 STRAND PER M22759/33 (NOTE 3)

**NOTES:**

1. WIRE TYPE 'E' AND 'F' ONLY
2. NMR2 (.030" CENTERS) ONLY WHEN ORDERING 30 AWG
3. 30 AWG ONLY



17312 EASTMAN  
IRVINE, CA 92614

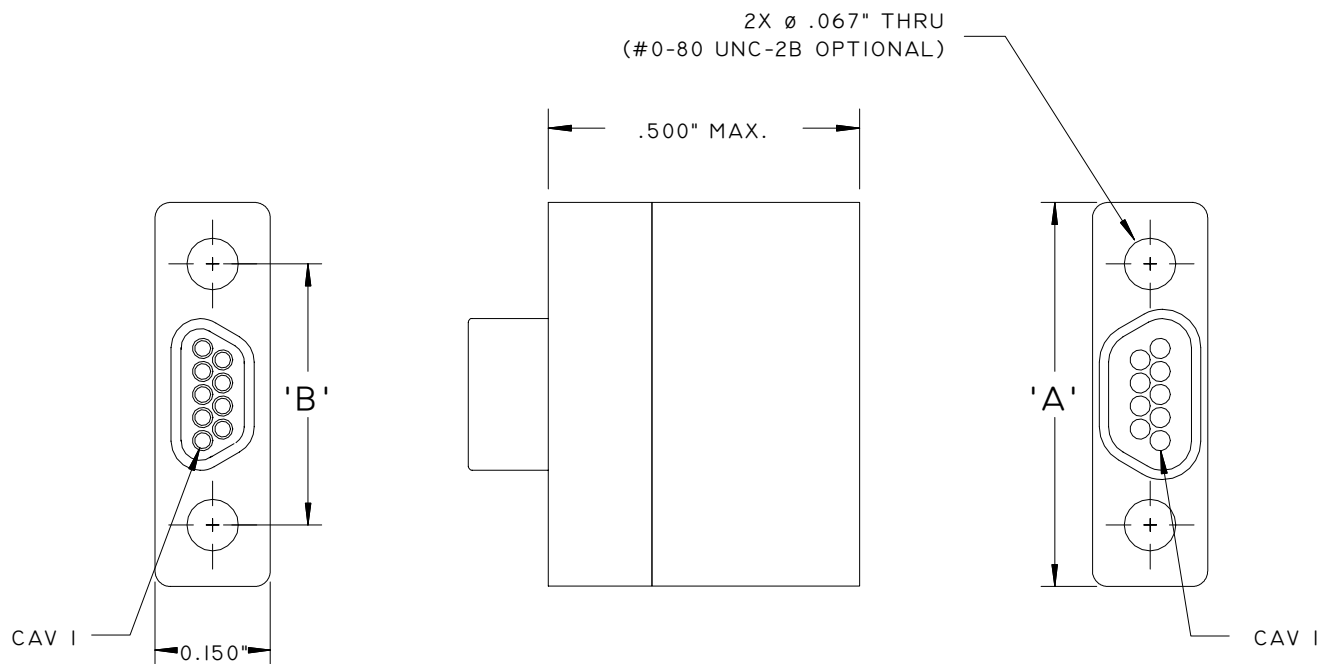
DWG TITLE

NMR\* PLUG & RECEPTACLE  
JUMPER/EXTENDER 9-37

|                  |                          |                               |                 |
|------------------|--------------------------|-------------------------------|-----------------|
| SIZE<br><b>A</b> | FSCM NO.<br><b>54455</b> | DWG NO.<br><b>SK030050-10</b> | REV<br><b>A</b> |
| SCALE NONE       |                          | SHEET 2 OF 2                  |                 |

# NMR\* CONNECTOR SAVER

CONFIGURATION VIEW



**PIN (PLUG) END**

**SOCKET (RECEPTACLE) END**

| CONNECTOR SIZE | DIMENSION A<br>+/- .005 |      | DIMENSION B<br>+/- .005 |      |
|----------------|-------------------------|------|-------------------------|------|
|                | NMR1                    | NMR2 | NMR1                    | NMR2 |
| 9              | .480                    | .500 | .320                    | .340 |
| 15             | .555                    | .590 | .395                    | .430 |
| 21             | .630                    | .680 | .470                    | .520 |
| 25             | .680                    | .740 | .520                    | .580 |
| 31             | .755                    | .830 | .595                    | .670 |
| 37             | .830                    | .920 | .670                    | .760 |

NMR1 HAS .025" CENTER CONTACTS  
 NMR2 HAS .030" CENTER CONTACTS

MATERIAL:

- A) INSULATOR: RYTON.
- B) SHELL: 300 SERIES STAINLESS STEEL.
- C) CONTACTS: GOLD PLATED COPPER.
- D) EPOXY: HYSOL EE4215 (125°C) OR MEC SPECIAL HI-TEMP (175°C).

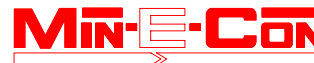
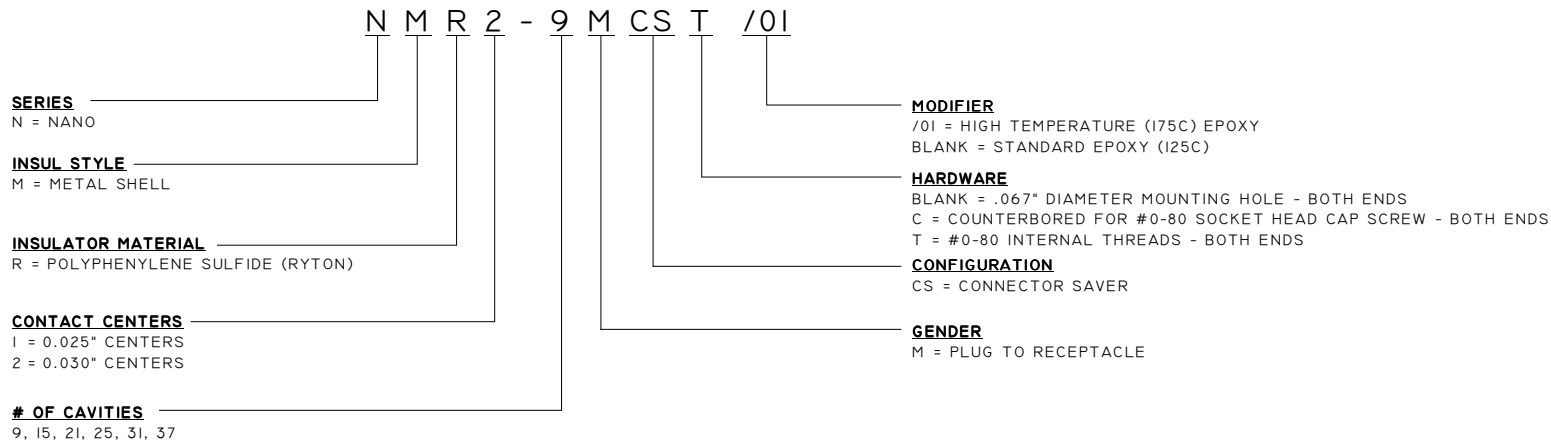


17312 EASTMAN  
 IRVINE, CA 92614

|   |          |              |     |
|---|----------|--------------|-----|
| DWG TITLE                               |          |              |     |
| NANO CONNECTOR SAVER<br>NMI & NMR2 9-37 |          |              |     |
| SIZE                                    | FSCM NO. | DWG NO.      | REV |
| A                                       | 54455    | SK030050-II  | A   |
| SCALE NONE                              |          | SHEET 1 OF 2 |     |

# NMR\* CONNECTOR SAVER

## PART NUMBER ORDERING SYSTEM



17312 EASTMAN  
IRVINE, CA 92614

DWG TITLE

NANO CONNECTOR SAVER  
NMRI & NMR2 9-37

|       |          |             |        |
|-------|----------|-------------|--------|
| SIZE  | FSCM NO. | DWG NO.     | REV    |
| A     | 54455    | SK030050-II | A      |
| SCALE | NONE     | SHEET       | 2 OF 2 |