

MIN-E-CON NMR SERIES NANO CONNECTOR

PAGE NUMBER	REFERENCE NUMBER	DESCRIPTION
2 & 3	SK030050-01	NMR1 & NMR2 CABLE MOUNTED
4 & 5	SK030050-02	NMR1 'CBR' PLUG PC BOARD RIGHT ANGLE MOUNT
6 & 7	SK030050-03	NMR1 'ST' PLUG PC BOARD VERTICAL MOUNT
8 & 9	SK030050-04	NMR1 'CBR' RECEPTACLE PC BOARD RIGHT ANGLE MOUNT
10 & 11	SK030050-05	NMR1 'ST' RECEPTACLE PC BOARD VERTICAL MOUNT
12 & 13	SK030050-06	NMR2 'CBR' PLUG PC BOARD RIGHT ANGLE MOUNT
14 & 15	SK030050-07	NMR2 'ST' PLUG PC BOARD VERTICAL MOUNT
16 & 17	SK030050-08	NMR2 'CBR' RECEPTACLE PC BOARD RIGHT ANGLE MOUNT
18 & 19	SK030050-09	NMR2 'ST' RECEPTACLE PC BOARD VERTICAL MOUNT
20 & 21	SK030050-10	NMR1 & NMR2 JUMPER/EXTENDER ASSEMBLY
22 & 23	SK030050-11	NMR1 & NMR2 CONNECTOR SAVER


 17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

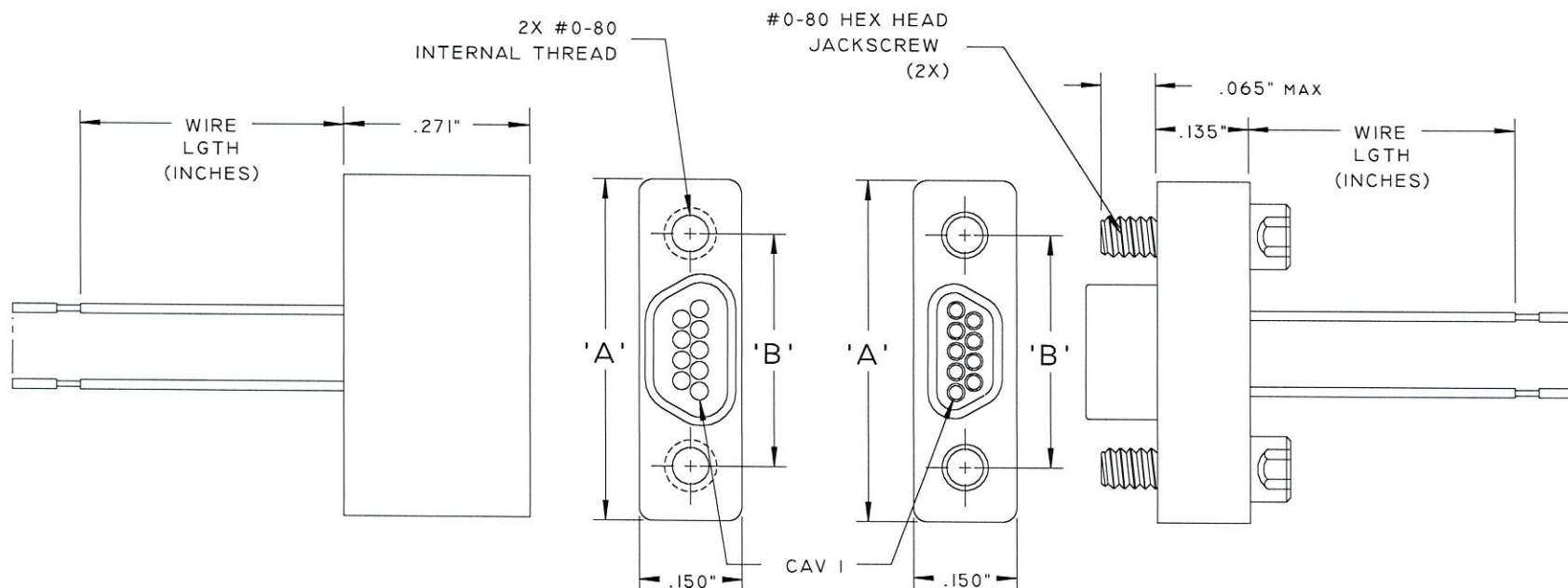
NANO NMR SERIES TABLE OF CONTENTS

SIZE A	FSCM NO. 54455	DWG NO. SK030050	REV E
SCALE NONE			SHEET 1 OF 23

22SEP17

NMR* PLUG & RECEPTACLE (-01)

CONFIGURATION VIEW



SOCKET (RECEPTACLE)

PIN (PLUG)

CONNECTOR SIZE	DIMENSION A +/- .005		DIMENSION B +/- .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) WIRE: 30 OR 32 AWG SOLID OR STRANDED.
- E) EPOXY: HYSOL EE4215 (125°C) OR
MEC SPECIAL HI-TEMP (200°C).
- F) HARDWARE: 300 SERIES STAINLESS STEEL.

MIN-E-CON

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IRVINE, CA 92614

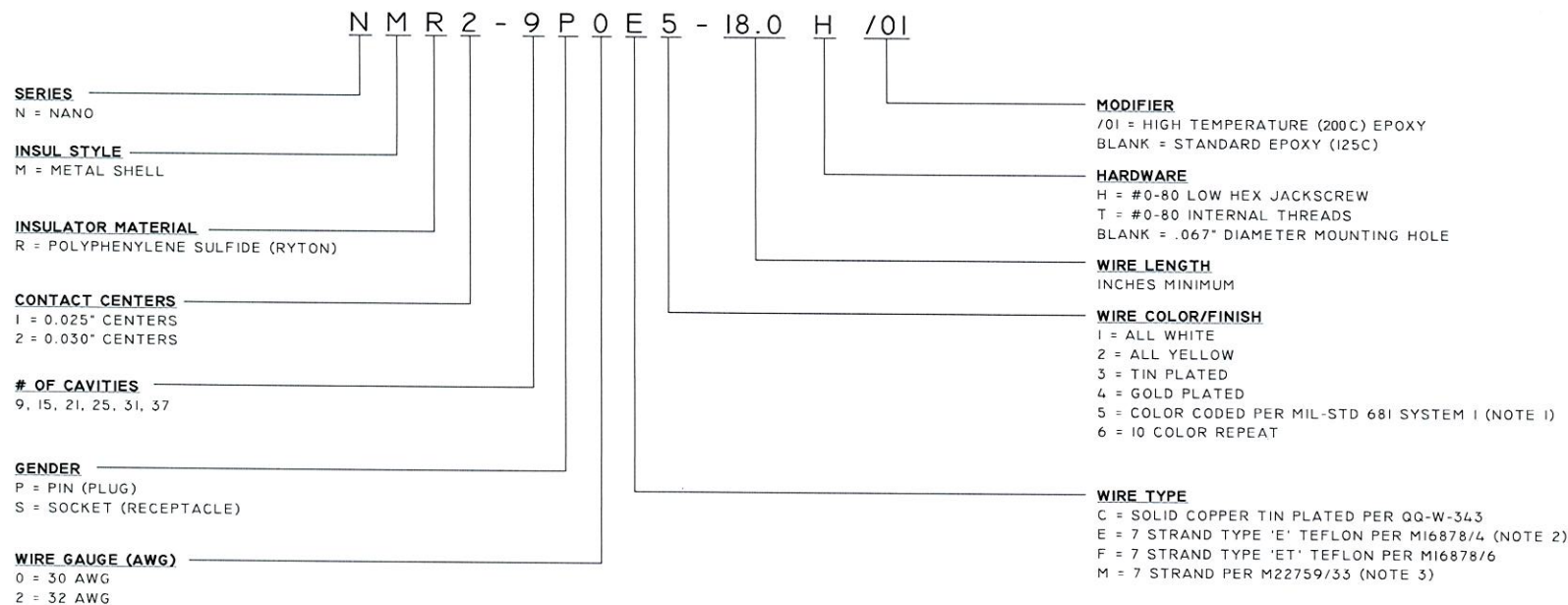
DWG TITLE

 NMR* PLUG & RECEPTACLE
9-37 CABLE MOUNTED

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE NONE		SHEET	2 OF 23

NMR* PLUG & RECEPTACLE (-01)

PART NUMBER ORDERING SYSTEM



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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DWG TITLE

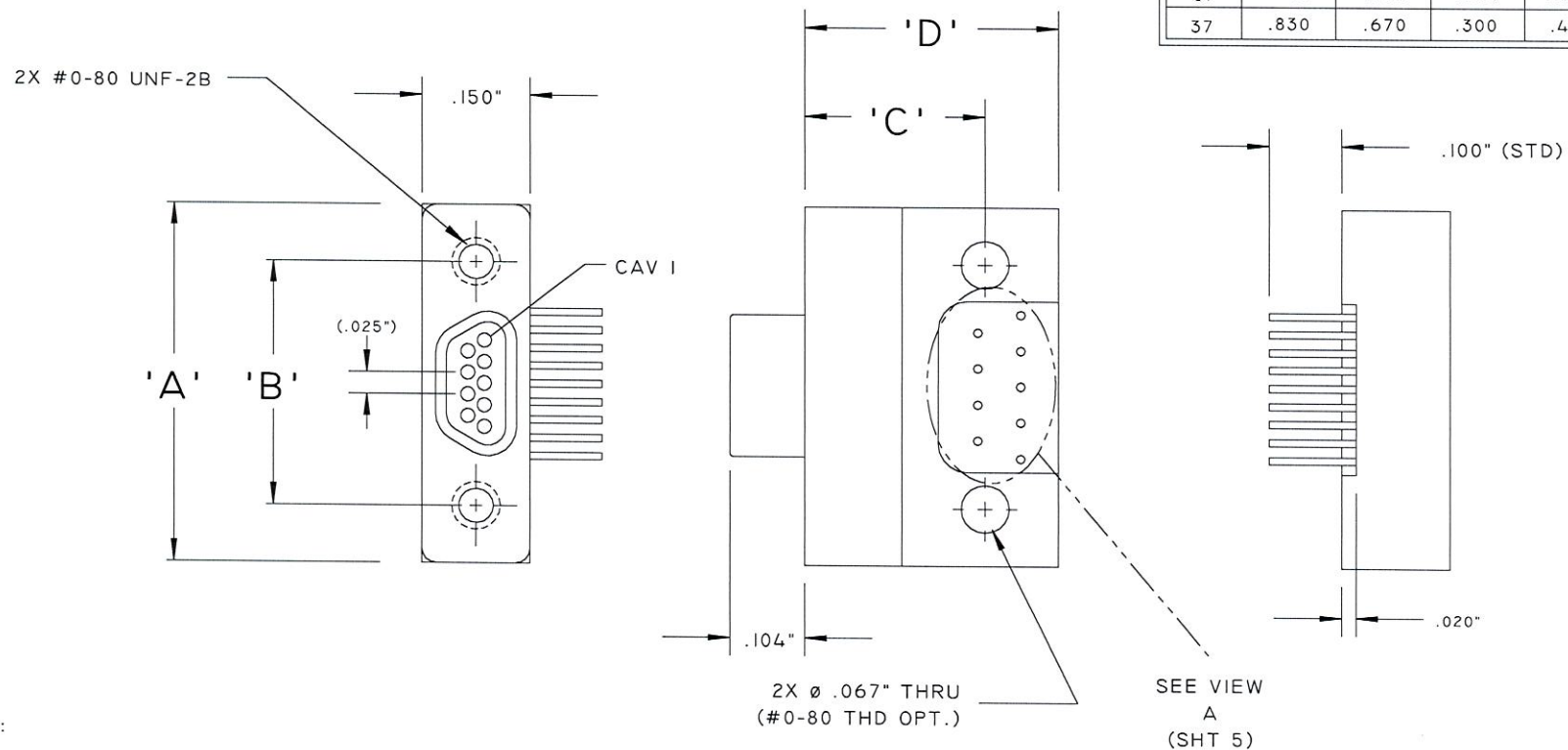
NMR* PLUG & RECEPTACLE
9-37 CABLE MOUNTED

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE	NONE	SHEET	3 OF 23

NMRI 'CBR' PLUG (-02)

CONFIGURATION VIEW

CONN SIZE	A +/- .005	B +/- .005	C +/- .010	D MAX
9	.480	.320	.250	.360
15	.555	.395	.300	.410
21	.630	.470	.300	.410
25	.680	.520	.300	.410
31	.755	.595	.300	.460
37	.830	.670	.300	.460



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 (200°C).

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

MIN-E-CON17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE	NONE	SHEET	4 OF 23

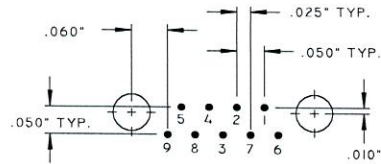
DWG NO: SK030050

NMRI 'CBR' PLUG (-02)

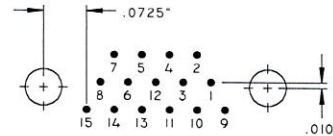
TERMINATION LAYOUT

VIEW A

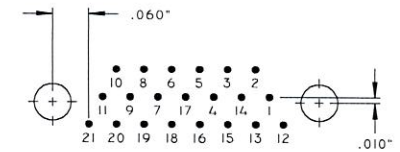
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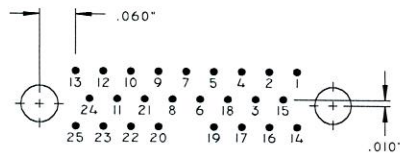
9 CONTACT



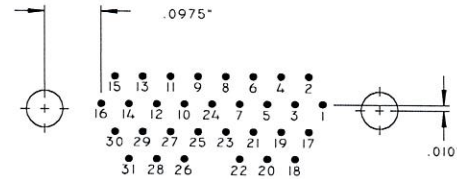
15 CONTACT



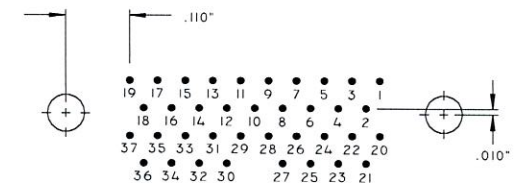
21 CONTACT



25 CONTACT

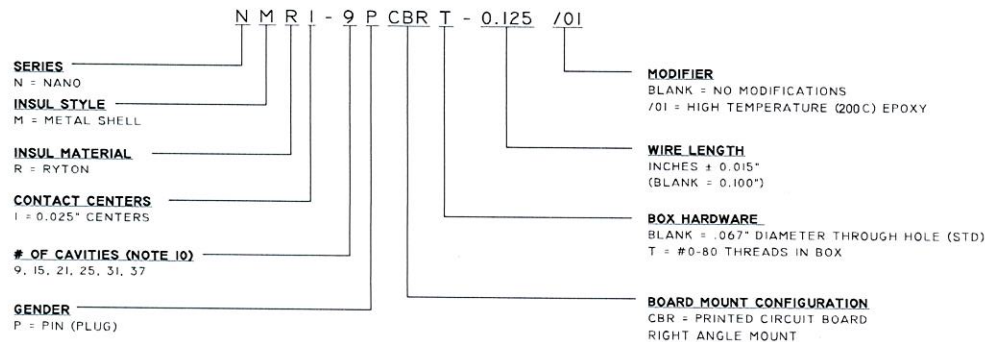


31 CONTACT



37 CONTACT

PART NUMBER ORDERING SYSTEM



MIN-E-CON

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DWG TITLE

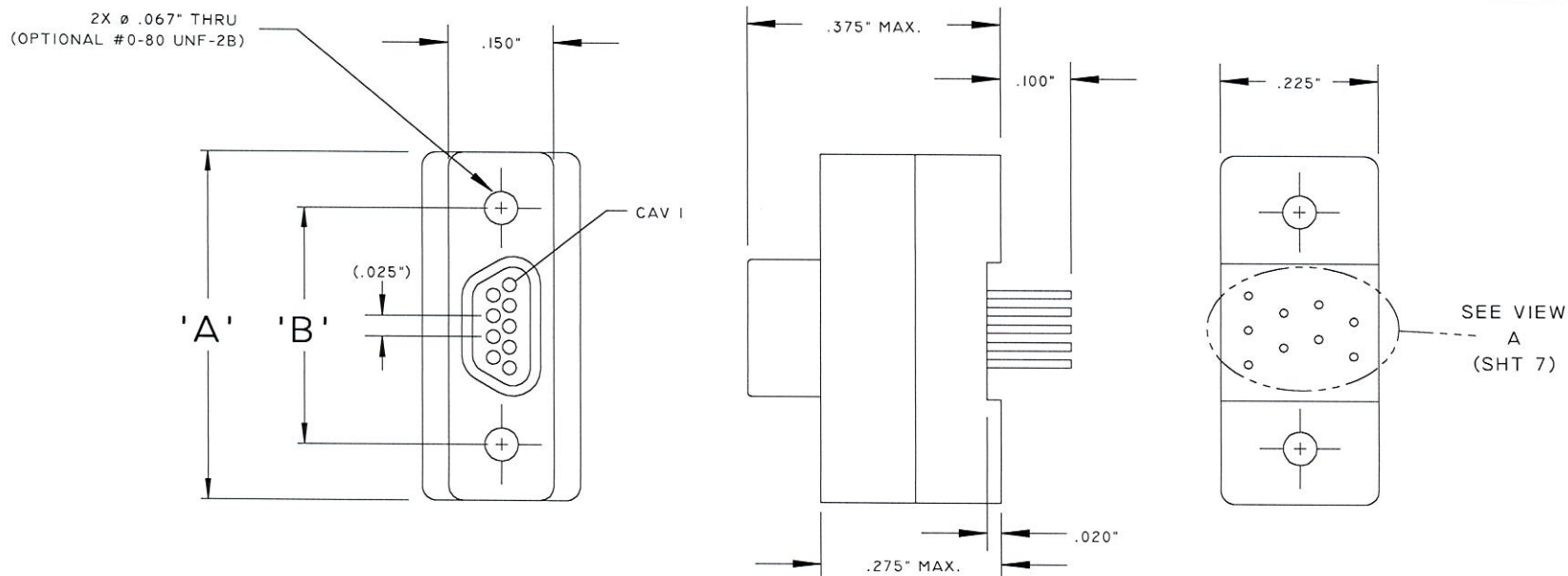
NMRI (.025") 'CBR' PLUG
PC BOARD RIGHT ANGLE MOUNT

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE	NONE	SHEET	5 OF 23

NMRI 'ST' PLUG (-03)

CONFIGURATION VIEW

CONNECTOR SIZE	A =/- .005	B =/- .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 (200 °C).

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

MIN-E-CON

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DWG TITLE

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

 SIZE
A

 FSCM NO.
54455

 DWG NO.
SK030050

 REV
E

SCALE NONE

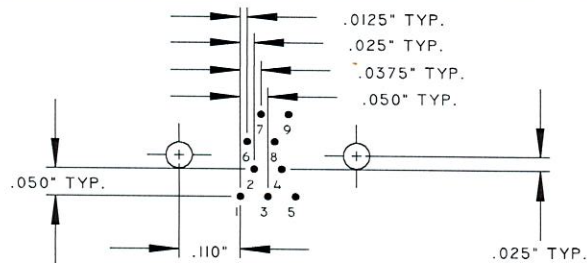
SHEET 6 OF 23

NMRI 'ST' PLUG (-03)

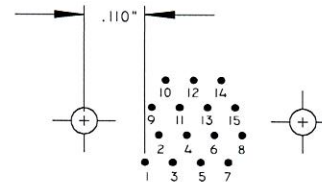
TERMINATION LAYOUT

VIEW A

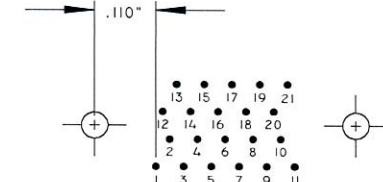
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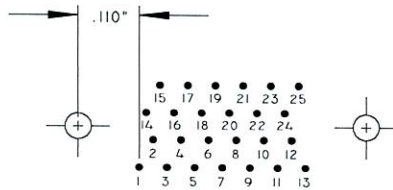
9 CONTACT



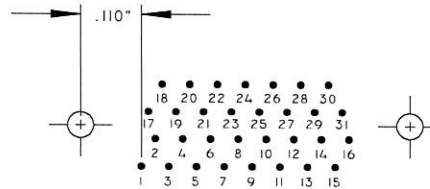
15 CONTACT



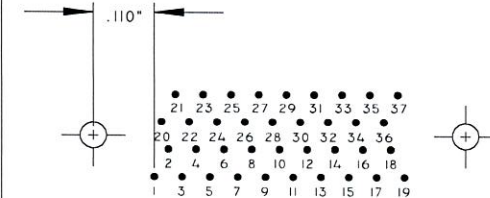
21 CONTACT



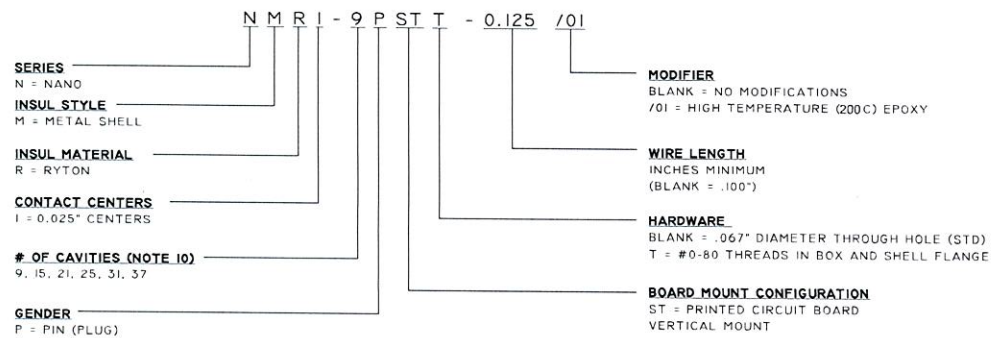
25 CONTACT



31 CONTACT



37 CONTACT

PART NUMBER ORDERING SYSTEM**MIN-E-CON**17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

SIZE

A

FSCM NO.

54455

DWG NO.

SK030050

REV

E

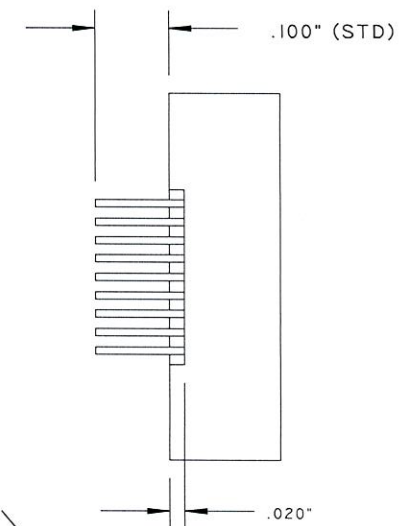
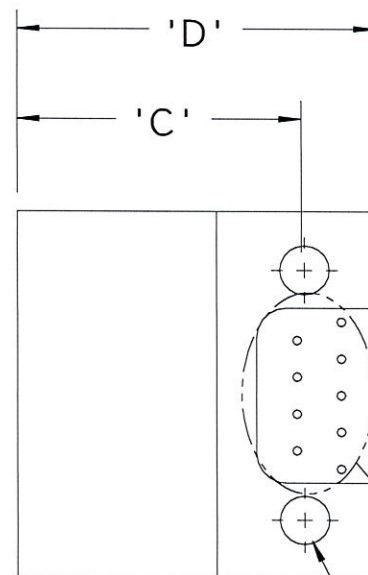
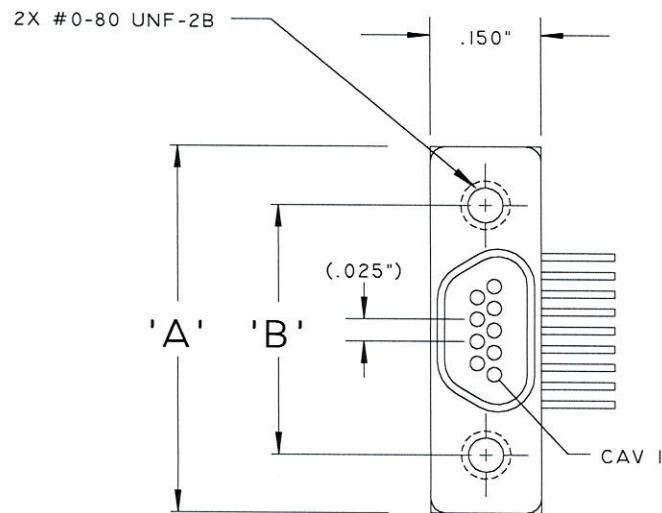
SCALE NONE

SHEET 7 OF 23

NMRI 'CBR' RECEPTACLE (-04)

CONFIGURATION VIEW

CONN SIZE	A =/- .005	B =/- .005	C =/- .010	D MAX
9	.480	.320	.390	.500
15	.555	.395	.440	.550
21	.630	.470	.440	.550
25	.680	.520	.440	.550
31	.755	.595	.440	.600
37	.830	.670	.440	.600



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 (200°C).

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

MIN-E-CON17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

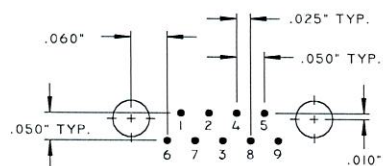
SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE NONE		SHEET 8 OF 23	

NMRI 'CBR' RECEPTACLE (-04)

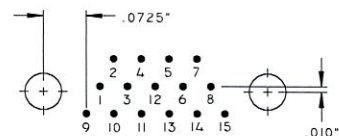
TERMINATION LAYOUT

VIEW A

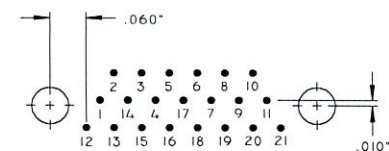
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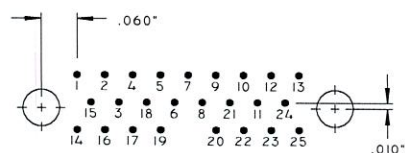
9 CONTACT



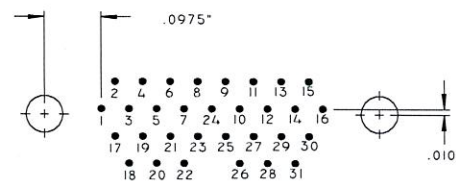
15 CONTACT



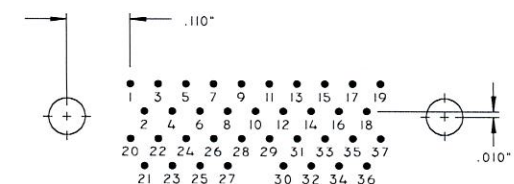
21 CONTACT



25 CONTACT

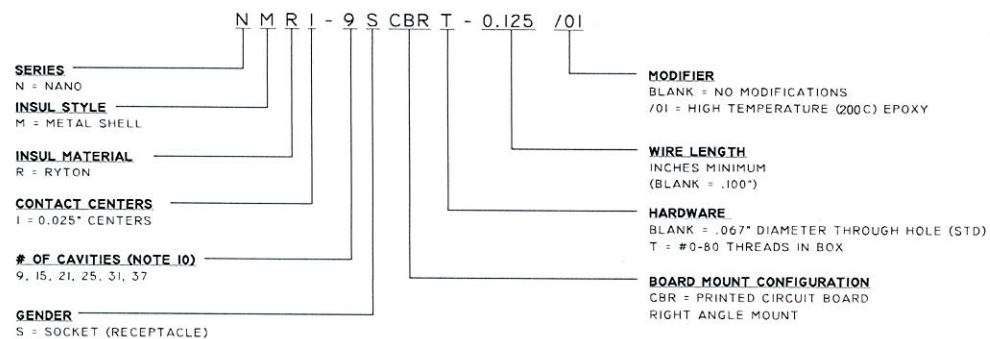


31 CONTACT



37 CONTACT

PART NUMBER ORDERING SYSTEM



17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

SIZE

A

FSCM NO.

54455

DWG NO.

SK030050

REV

E

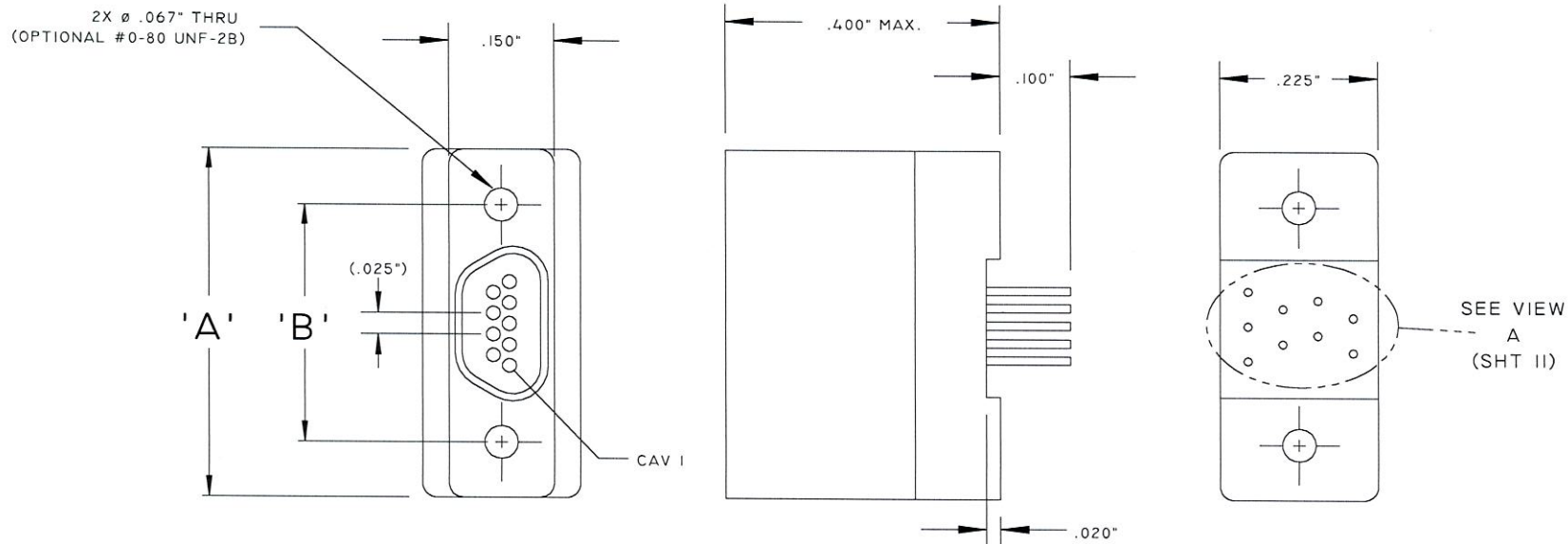
SCALE NONE

SHEET 9 OF 23

NMRI 'ST' RECEPTACLE (-05)

CONFIGURATION VIEW

CONNECTOR SIZE	A =/- .005	B =/- .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 (200°C).

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

MIN-E-CON17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

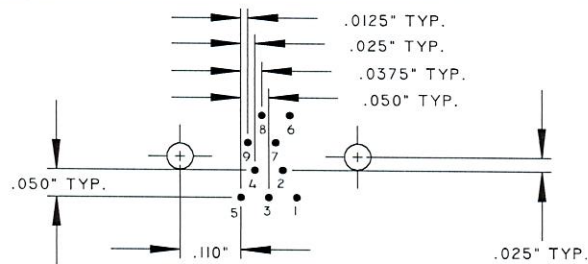
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A	54455	SK030050	E
SCALE	NONE	SHEET	10 OF 23

NMRI 'ST' RECEPTACLE (-05)

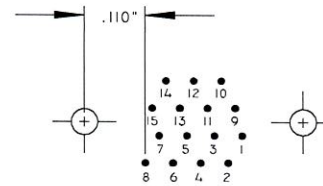
TERMINATION LAYOUT

VIEW A

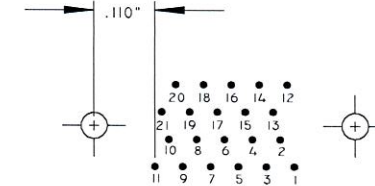
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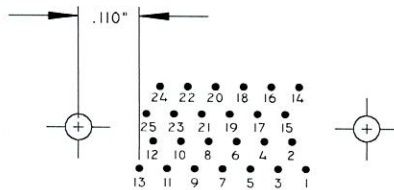
9 CONTACT



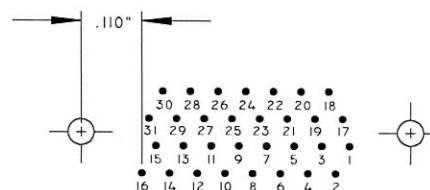
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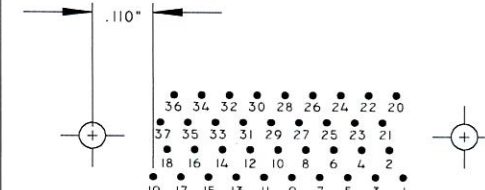
21 CONTACT



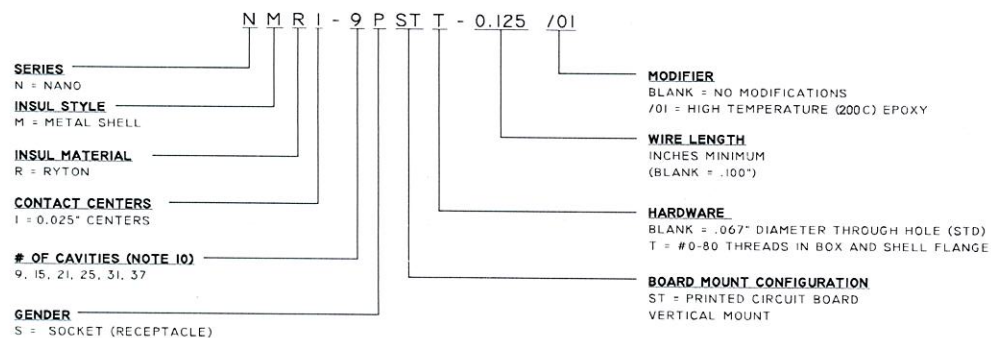
25 CONTACT



31 CONTACT



37 CONTACT

PART NUMBER ORDERING SYSTEM**MIN-E-CON**17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

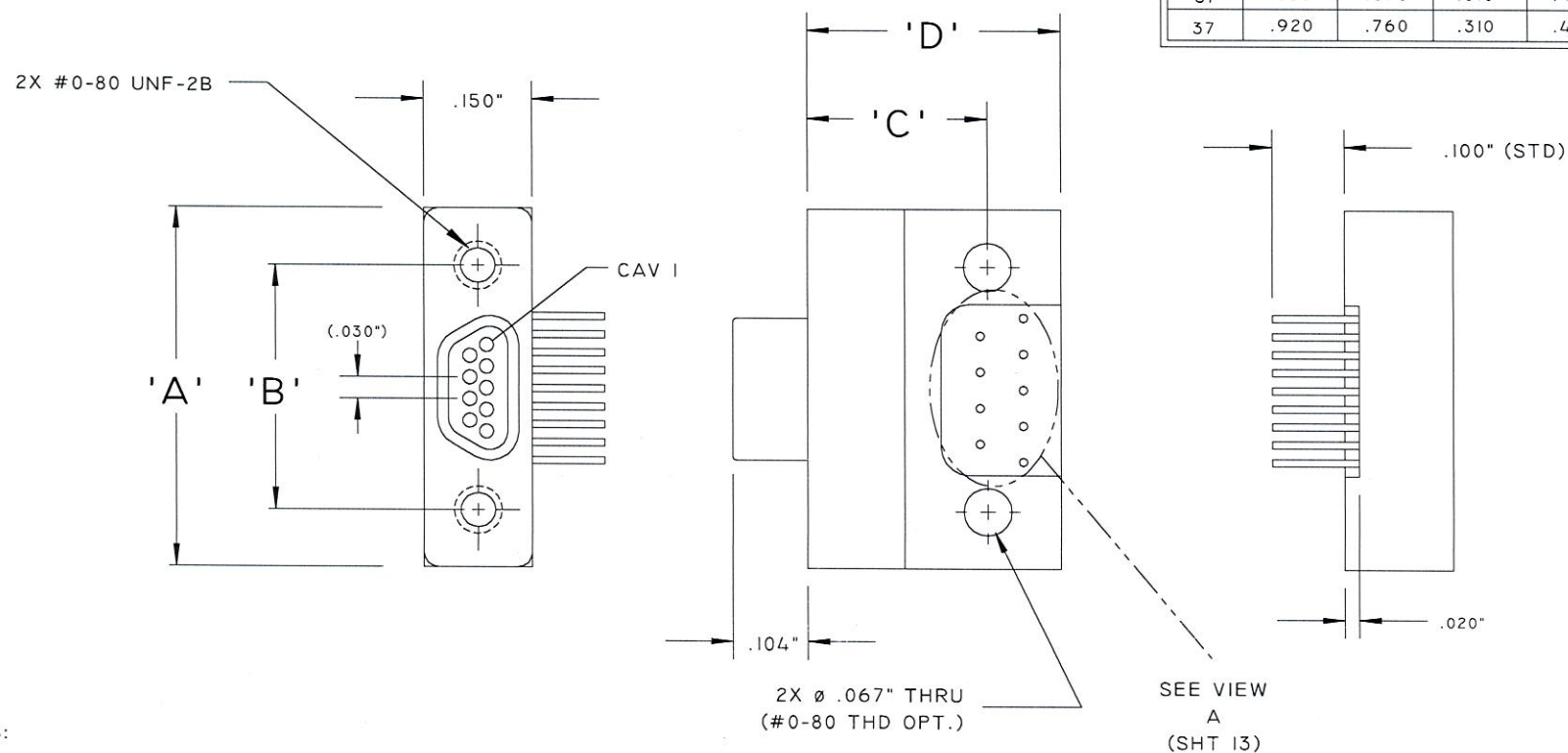
NMRI (.025") 'ST' RECEPTACLE
PC BOARD VERTICAL MOUNT

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE	NONE	SHEET	11 OF 23

NMR2 'CBR' PLUG (-06)

CONFIGURATION VIEW

CONN SIZE	A =/- .005	B =/- .005	C =/- .010	D MAX
9	.500	.340	.250	.370
15	.590	.430	.310	.430
21	.680	.520	.310	.430
25	.740	.580	.310	.430
31	.830	.670	.310	.490
37	.920	.760	.310	.490



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 (200°C).

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

MIN-E-CON17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

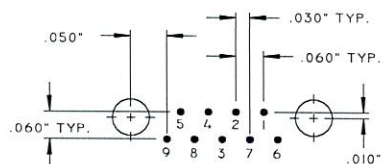
SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE NONE		SHEET 12 OF 23	

NMR2 'CBR' PLUG (-06)

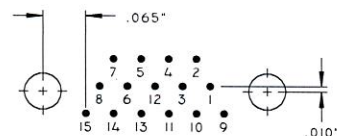
TERMINATION LAYOUT

VIEW A

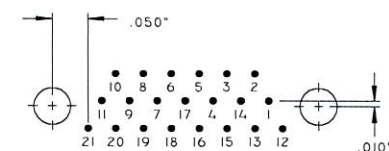
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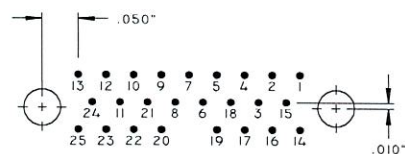
9 CONTACT



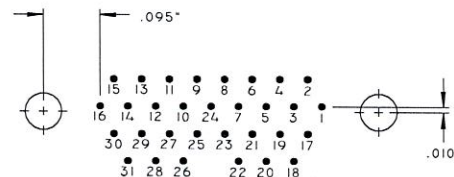
15 CONTACT



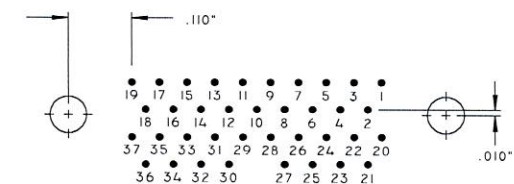
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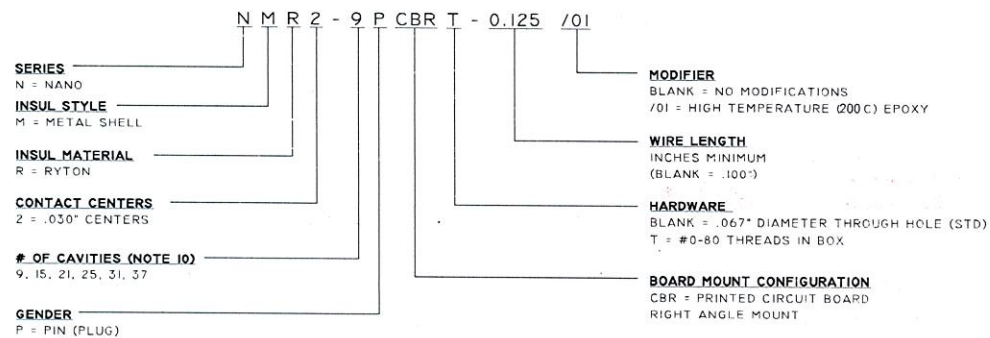
25 CONTACT



31 CONTACT



37 CONTACT

PART NUMBER ORDERING SYSTEM**MIN-E-CON**17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

SIZE

A

FSCM NO.

54455

DWG NO.

SK030050

REV

E

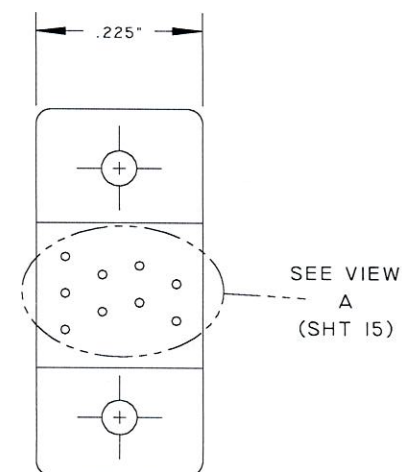
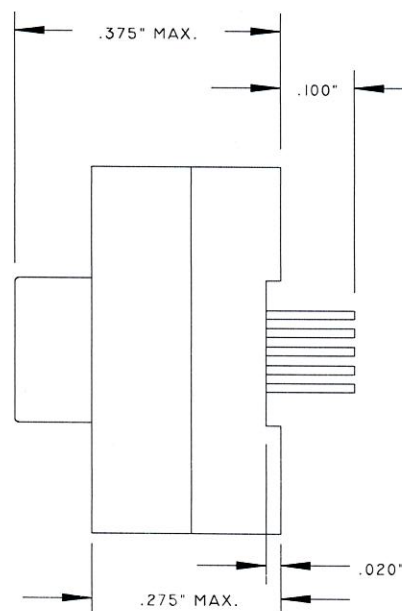
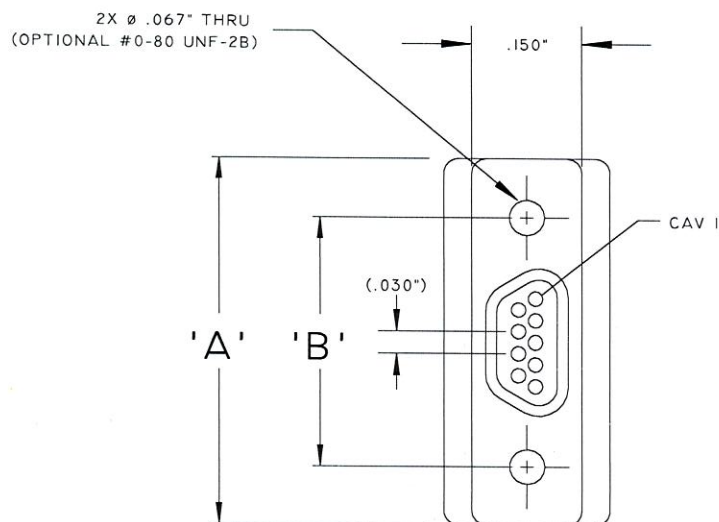
SCALE NONE

SHEET 13 OF 23

NMR2 'ST' PLUG (-07)

CONFIGURATION VIEW

CONNECTOR SIZE	A =/- .005	B =/- .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 (200°C).

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

MIN-E-CON17312 EASTMAN
IRVINE, CA 92614

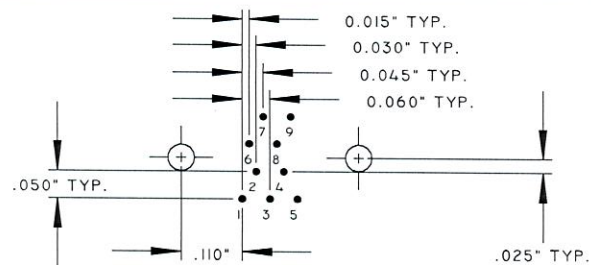
DWG TITLE

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

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE	NONE	SHEET	14 OF 23

NMR2 'ST' PLUG (-07)

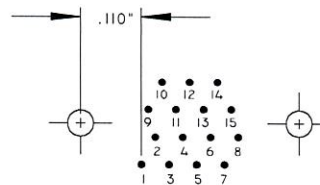
TERMINATION LAYOUT



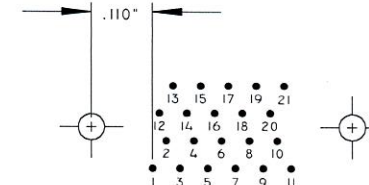
9 CONTACT

VIEW A

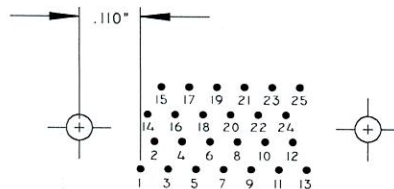
(ROTATED 90° CCW)



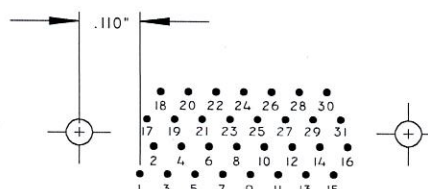
15 CONTACT



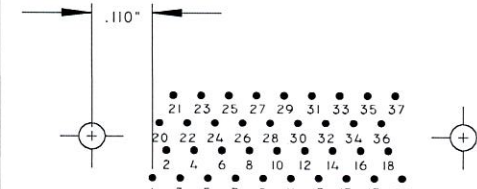
21 CONTACT



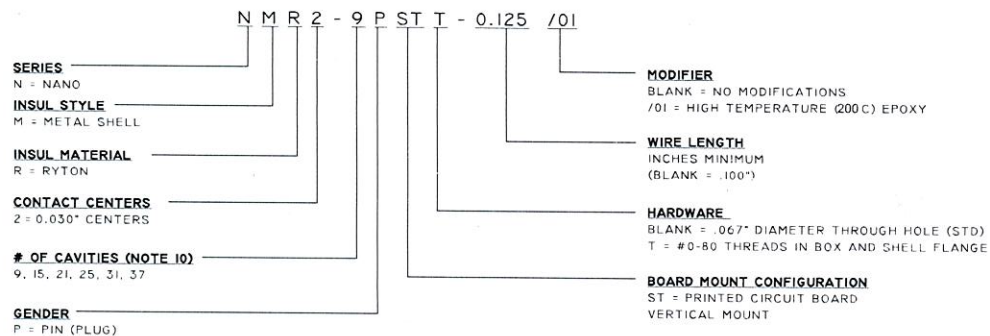
25 CONTACT



31 CONTACT



37 CONTACT

PART NUMBER ORDERING SYSTEM**MIN-E-CON**17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

SIZE

A

FSCM NO.

54455

DWG NO.

SK030050REV
E

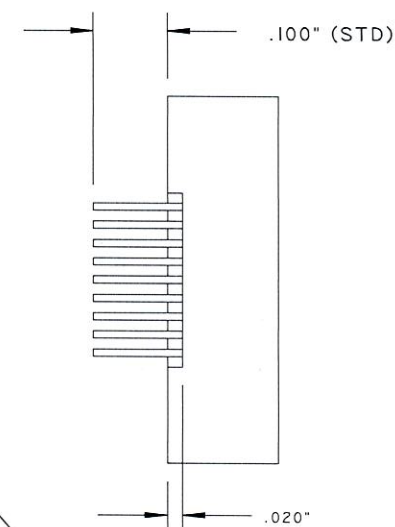
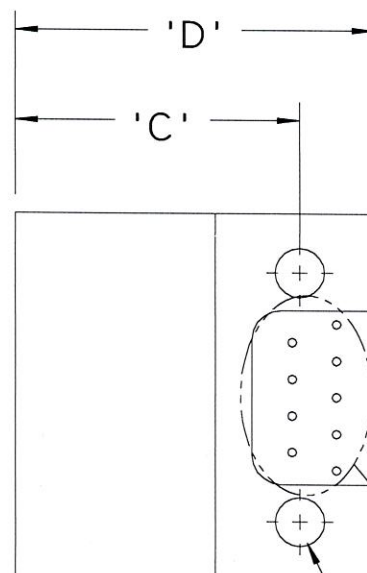
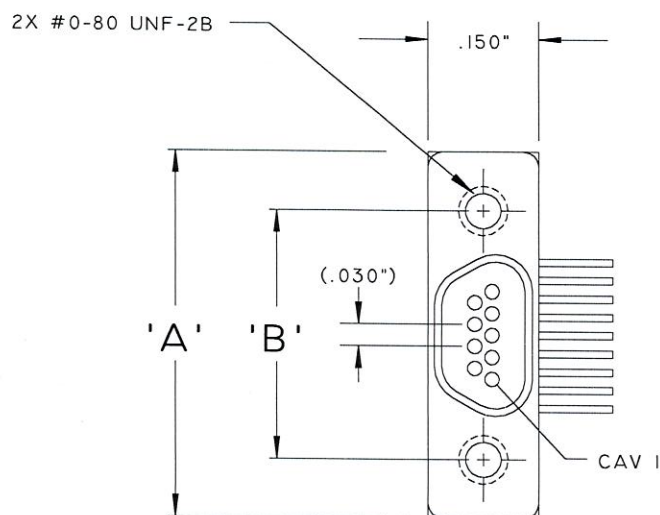
SCALE NONE

SHEET 15 OF 23

NMR2 'CBR' RECEPTACLE (-08)

CONFIGURATION VIEW

CONN SIZE	A =/- .005	B =/- .005	C =/- .010	D MAX
9	.500	.340	.390	.500
15	.590	.430	.450	.560
21	.680	.520	.450	.560
25	.740	.580	.450	.560
31	.830	.670	.450	.620
37	.920	.760	.450	.620

SEE VIEW
A
(SHT 17)

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 (200°C).

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

MIN-E-CON17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

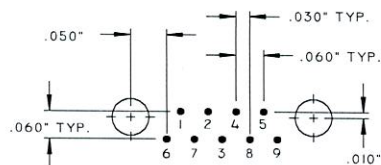
SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE NONE		SHEET 16 OF 23	

NMR2 'CBR' RECEPTACLE (-08)

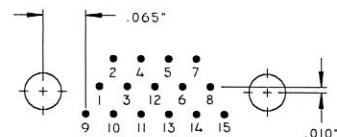
TERMINATION LAYOUT

VIEW A

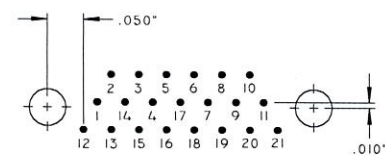
(ROTATED 90° CW)



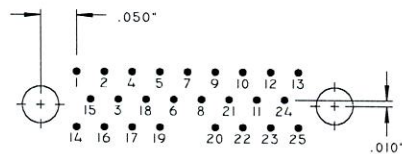
9 CONTACT



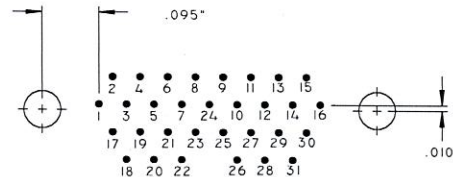
15 CONTACT



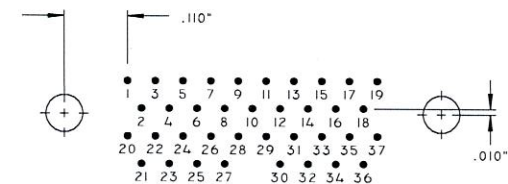
21 CONTACT



25 CONTACT

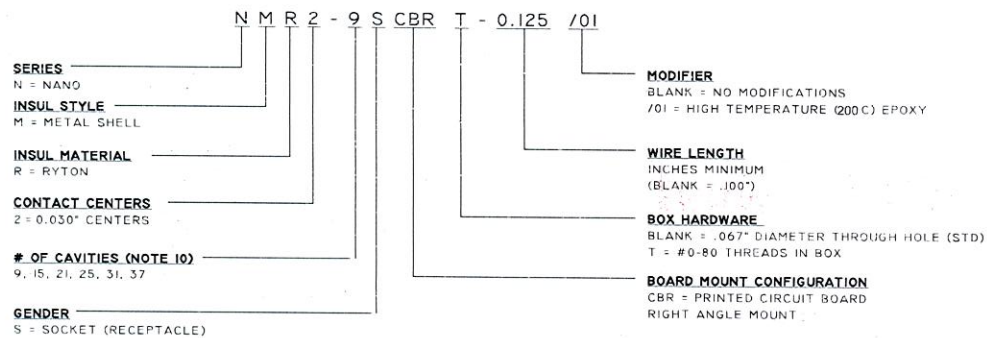


31 CONTACT



37 CONTACT

PART NUMBER ORDERING SYSTEM



MIN-E-CON

17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

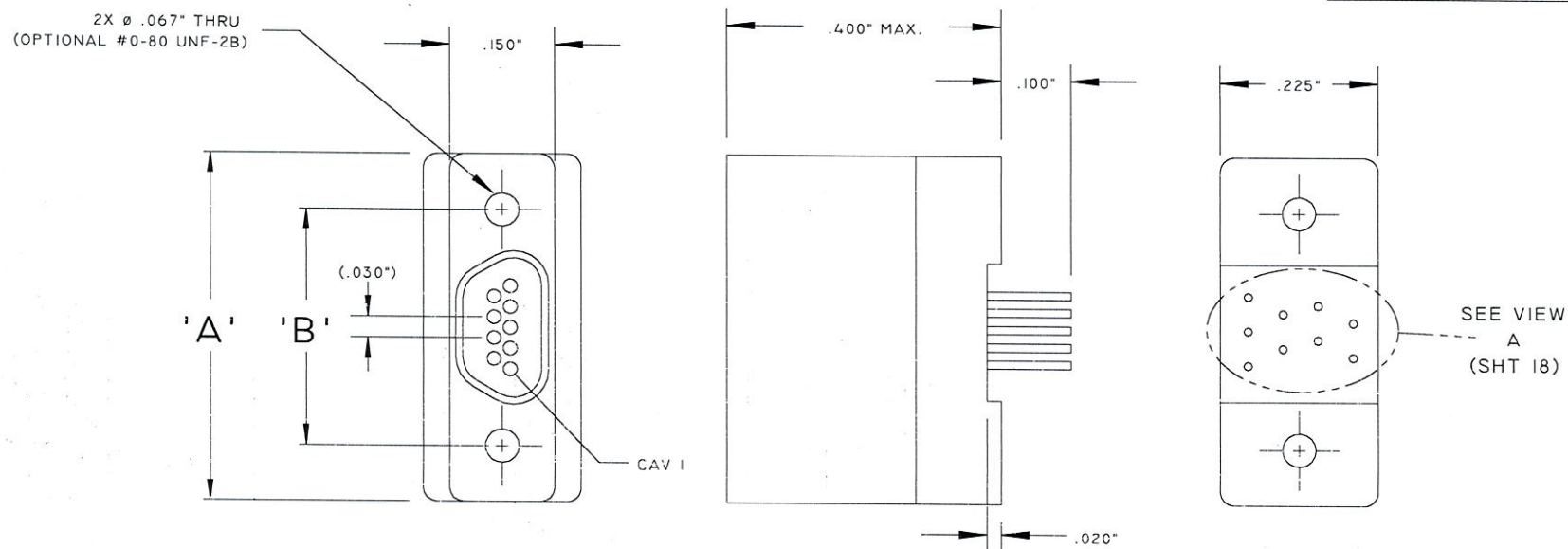
NMR2 (.030") 'CBR' RECEPTACLE
PC BOARD RIGHT ANGLE MOUNT

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE	NONE	SHEET	17 OF 23

NMR2 'ST' RECEPTACLE (-09)

CONFIGURATION VIEW

CONNECTOR SIZE	A =/- .005	B =/- .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 (200°C).

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

MIN-E-CON17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

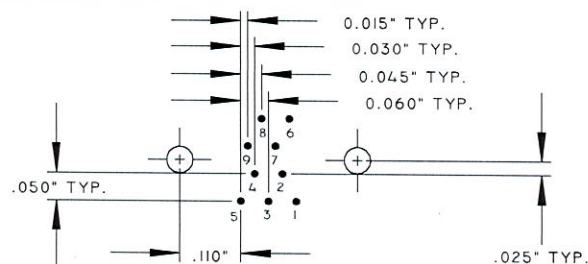
SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE NONE		SHEET 18 OF 23	

NMR2 'ST' RECEPTACLE (-09)

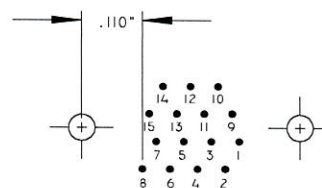
TERMINATION LAYOUT

VIEW A

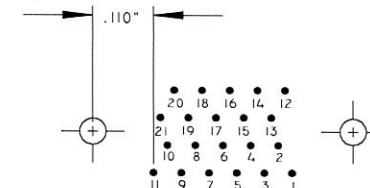
(ROTATED 90° CCW)



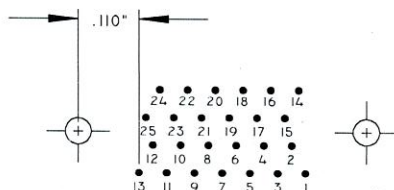
9 CONTACT



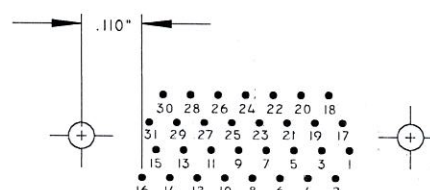
15 CONTACT



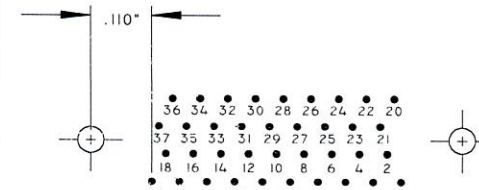
21 CONTACT



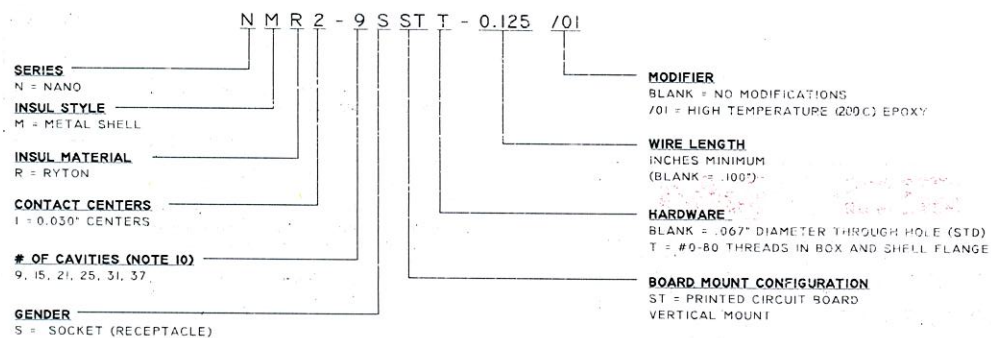
25 CONTACT



31 CONTACT



37 CONTACT

PART NUMBER ORDERING SYSTEM**MIN-E-CON**17312 EASTMAN
IRVINE, CA 92614

DWG TITLE

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

SIZE

A

FSCM NO.

54455

DWG NO.

SK030050

REV

E

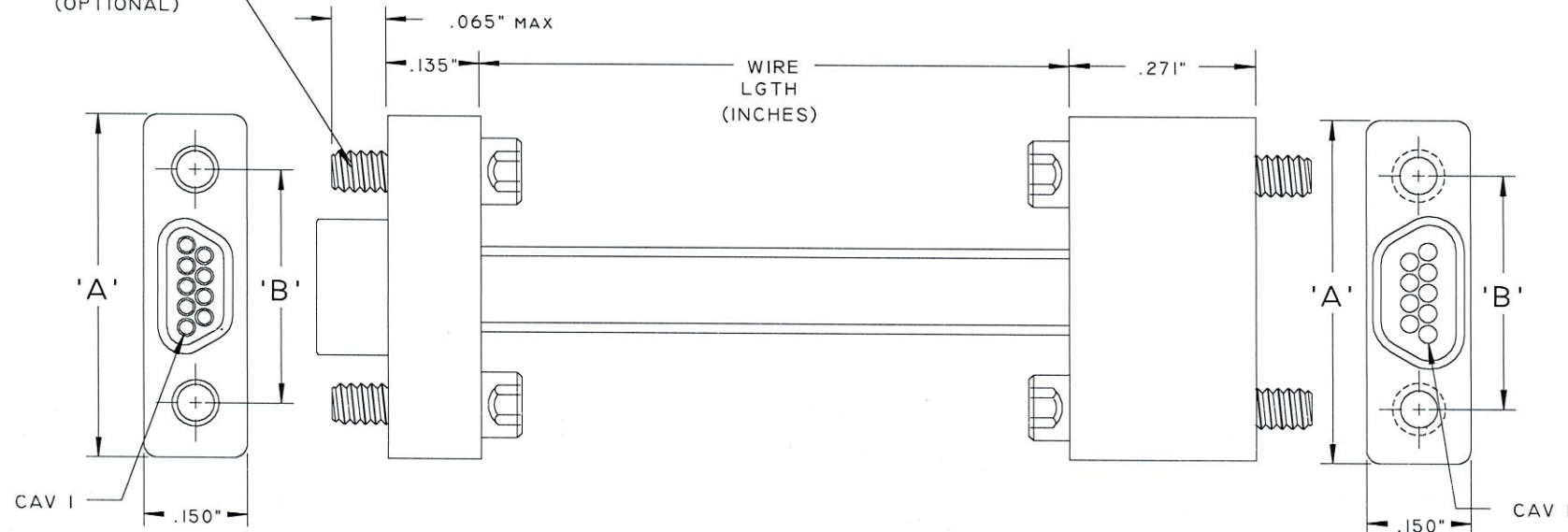
SCALE NONE

SHEET

19 OF 23

NMR* JUMPER/EXTENDER (-10)

CONFIGURATION VIEW

#0-80 HEX HEAD
JACKSCREW
(OPTIONAL)**PIN (PLUG)****SOCKET (RECEPTACLE)**

CONNECTOR SIZE	DIMENSION A +/- .005		DIMENSION B +/- .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) 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.

MIN-E-CON17312 EASTMAN
IRVINE, CA 92614

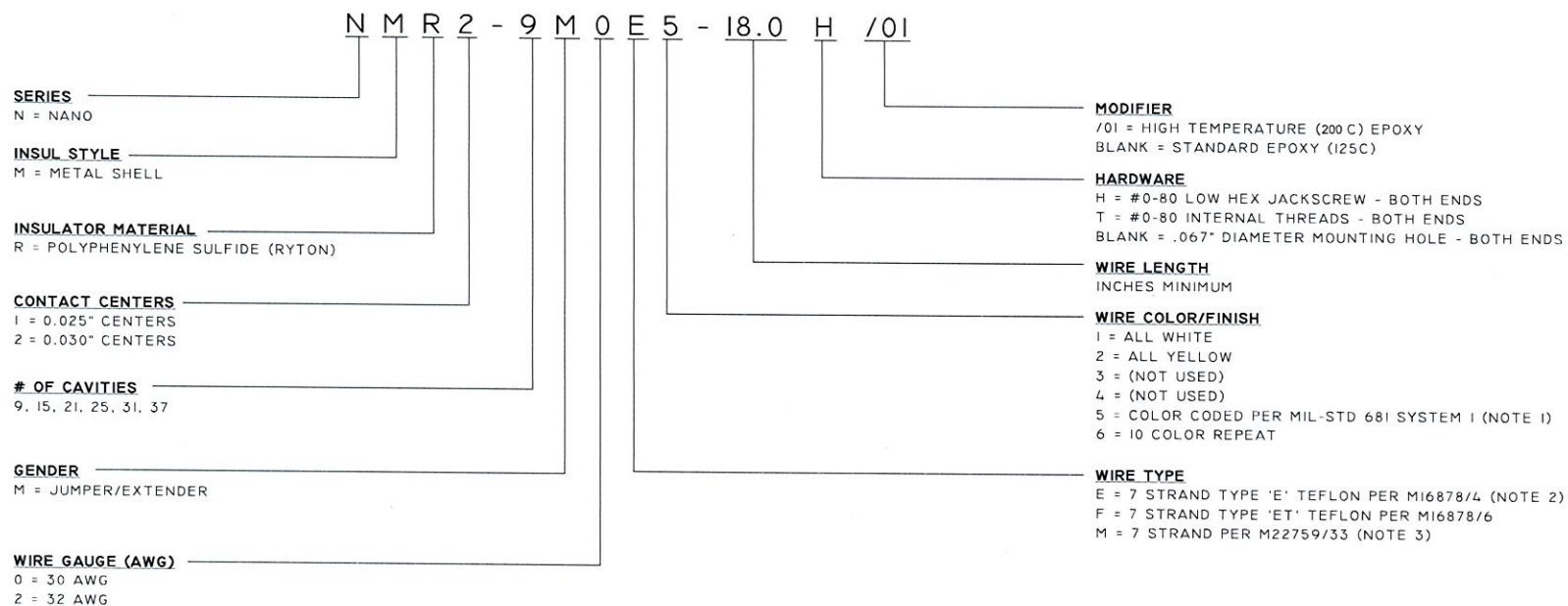
DWG TITLE

**NMR* PLUG TO RECEPTACLE
JUMPER/EXTENDER 9-37**

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE NONE		SHEET 20 OF 23	

NMR* JUMPER/EXTENDER (-10)

PART NUMBER ORDERING SYSTEM



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

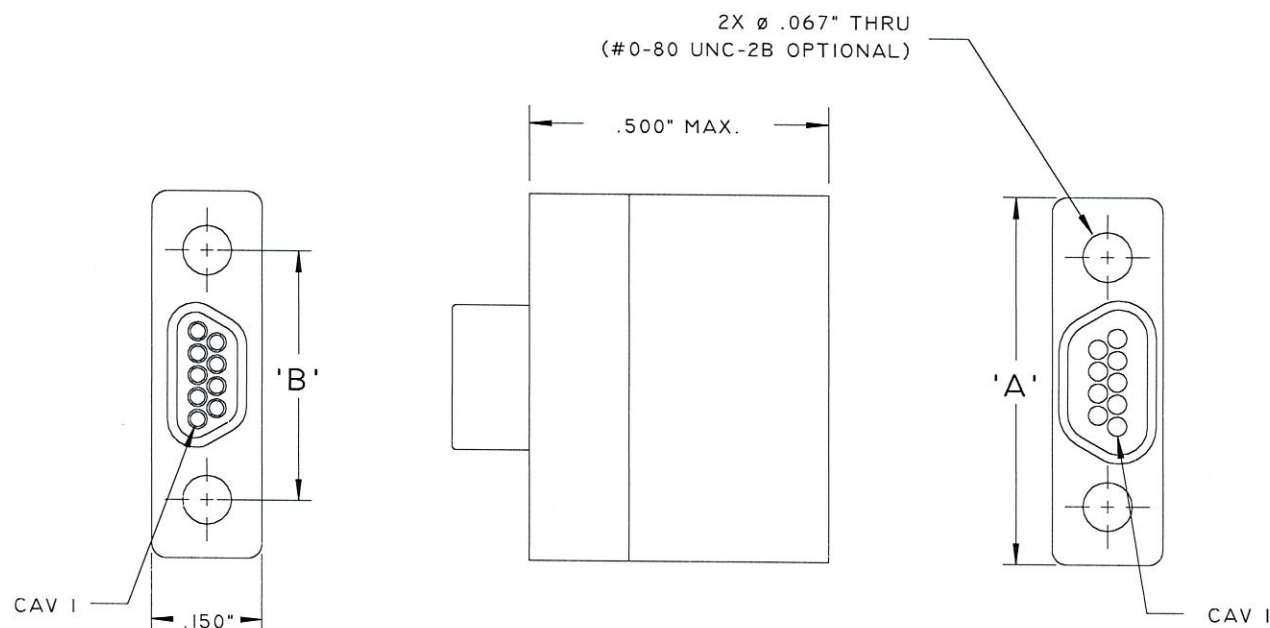
DWG TITLE

NMR* PLUG & RECEPTACLE
JUMPER/EXTENDER 9-37

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE	NONE	SHEET	21 OF 23

NMR* CONNECTOR SAVER (-II)

CONFIGURATION VIEW

**PIN (PLUG)END****SOCKET (RECEPTACLE) END**

CONNECTOR SIZE	DIMENSION A +/- .005		DIMENSION B +/- .005	
	NMRI	NMR2	NMRI	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

NMRI 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 (200°C).

MIN-E-CON17312 EASTMAN
IRVINE, CA 92614

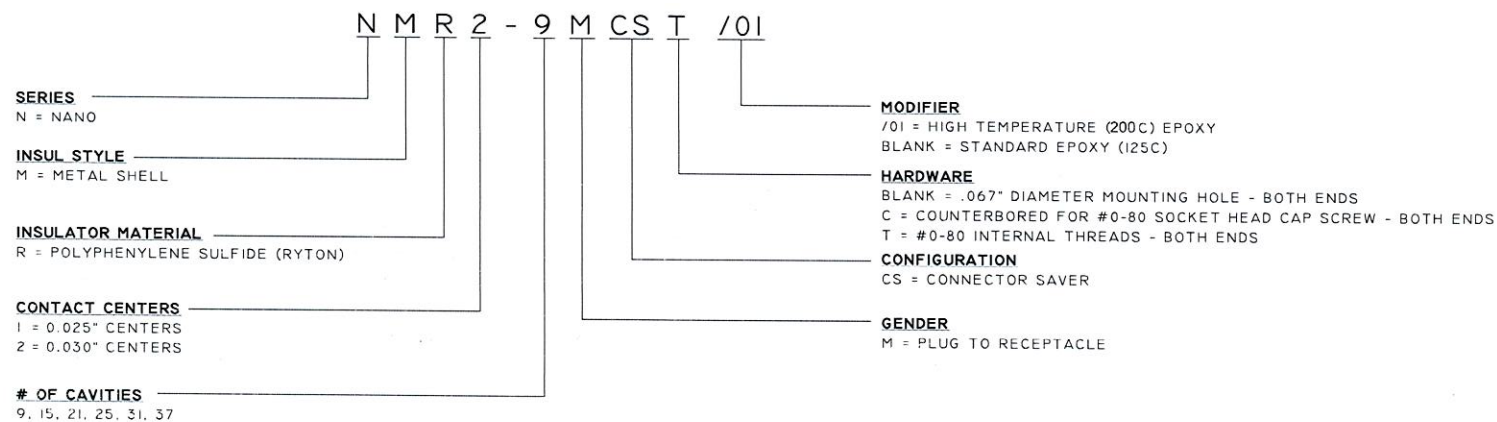
DWG TITLE

NANO CONNECTOR SAVER
NMRI & NMR2 9-37

SIZE	FSCM NO.	DWG NO.	REV
A	54455	SK030050	E
SCALE NONE		SHEET 22 OF 23	

NMR* CONNECTOR SAVER (-II)

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	E
SCALE	NONE	SHEET	23 OF 23