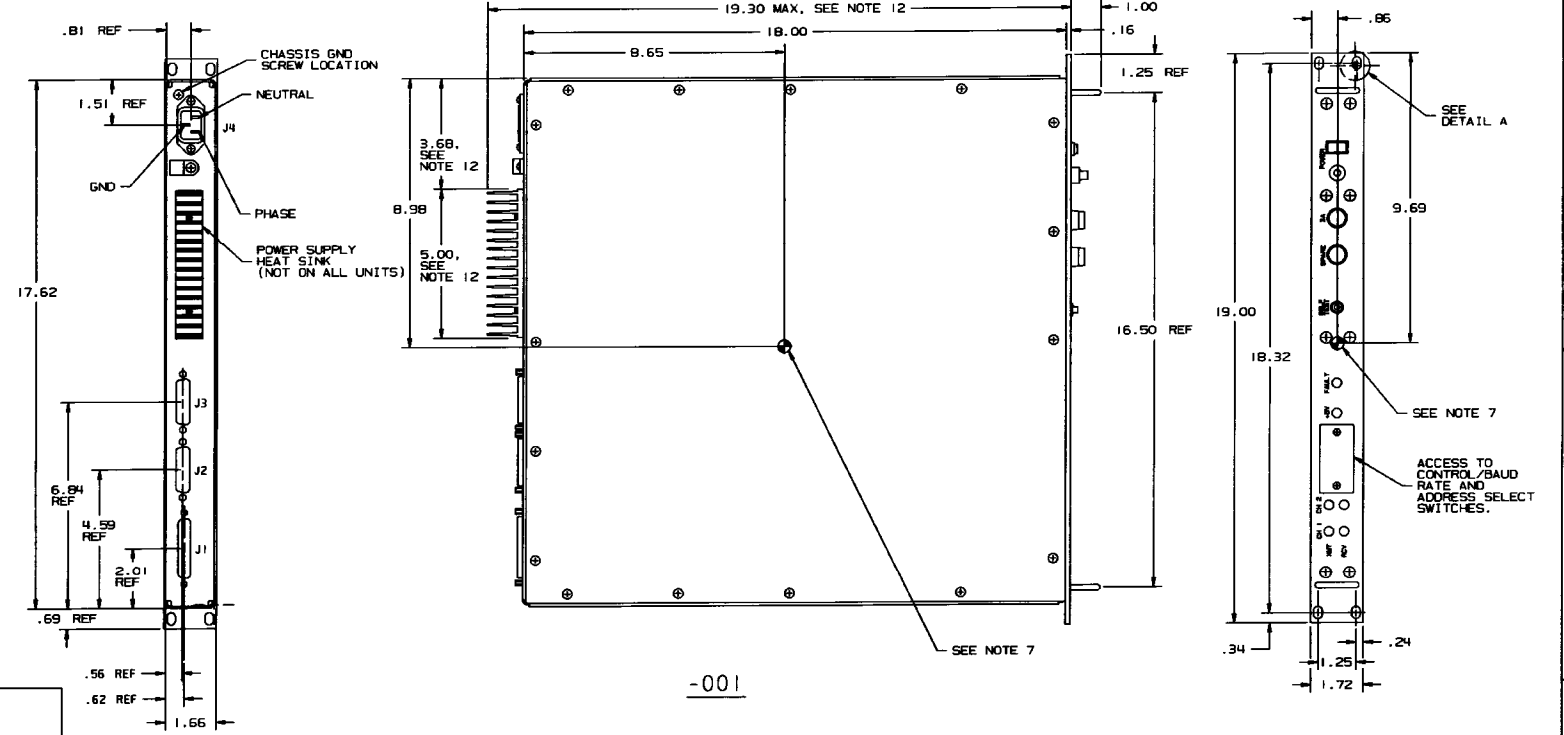
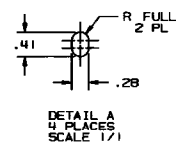


DWG NO		693-0445		SH		1	
REV		-003		-002		-001	
REV	REV	REV	REV	REV	REV	REV	REV
6	6	6	6	6	6	6	6
005	005	005	005	005	005	005	005

REVISIONS		DATE	APVD
A	RELEASE DATE	890831	
B	D45879-(CODE 16) REV 5H 1.	91-3-25	CT
C	D46185-(CODE 16) CHG CAGEC: REV 5H 1, 2.	91-3-26	WB
D	D47275-ADD-003.	91-08-02	WB
E	BF08H3-(AL-16) MISC.	91-12-06	DT
F	BF8131-(AL-16) CHG NOTE.	93-03-18	PM
G	BL2749-(AL-16) CHG NOTE.	94-02-25	DT
H	BL5817-(AL-16) CHG NOTE: -002, -003 OBSOLETE.	94-10-26	DT

- NOTES:
- DIMENSIONS AND DATA ARE FOR PLANNING AND INSTALLATION PURPOSES ONLY. THIS DOCUMENT IS NOT TO BE USED FOR ACCEPTANCE OR REJECTION OF PRODUCT.
  - PARENTHEetical INFORMATION, IS FOR REFERENCE ONLY.
  - TOP LEVEL PART NUMBER 622-9653-XXX.
  - EQUIPMENT WEIGHT: 12.0 POUNDS MAX.
  - HEAT DISSIPATION: 30 WATTS.
  - COOLING REQUIREMENTS: NATURAL CONVECTION
  - AMBIENT OPERATING TEMPERATURE 0°C TO 50°C.
  - APPROXIMATE CENTER OF GRAVITY INDICATED BY  $\odot$ .
  - 001, -002, -004/-008; POWER REQUIREMENTS: 100/130VAC, SINGLE PHASE, 60 HZ.
  - REFERENCE 693-0457-001 (HARDWARE INTERFACE CONTROL DOCUMENT MDM-2001) FOR SIGNAL DESCRIPTIONS AND 693-0458-001 (FIRMWARE INTERFACE CONTROL DOCUMENT, MDM-2001) FOR J2 CONTROL WORD FORMATS AND DEFINITION.
  - BRACKET MOUNTING KIT (PART NO. 693-0462-001) AVAILABLE FOR 19.00 INCH RACKS.
  - 001 AND -003 PROVIDES SLIDE LATCH TO SECURE J1 MATING CONNECTOR.
  - LATEST VERSION OF MDM-2001 MODEM DOES NOT REQUIRE A HEATSINK ON THE POWER SUPPLY MODULE.
  - 003; POWER REQUIREMENTS: 110-220 VAC, SINGLE PHASE, 50-400HZ.



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CURRENT DESIGN ACTIVITY CAGE CODE 13499  
 ROCKWELL INTERNATIONAL CORPORATION  
 COLLINS AVIONICS & COMMUNICATIONS DIVISION  
 350 COLLINS ROAD, NE CEDAR RAPIDS IA 52498

622-9653-009 MDM-2001	622-9653-004 MDM-2001	622-9653-005 MDM-2001	622-9653-003 MDM-2001	622-9653-002 MDM-2001	622-9653-001 MDM-2001
NEXT ASSY	USED ON	NEXT ASSY	USED ON	NEXT ASSY	USED ON
APPLICATION (IF APPLICABLE)	APPLICATION (IF APPLICABLE)	APPLICATION (IF APPLICABLE)	APPLICATION (IF APPLICABLE)	APPLICATION (IF APPLICABLE)	APPLICATION (IF APPLICABLE)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.		CONTRACT NO	
TOL ON DIM: .XX±.02, .XXX±.008	HOLE DIAMETERS:	ROCKWELL INTERNATIONAL CORPORATION COLLINS DEFENSE COMMUNICATIONS 350 COLLINS ROAD NE CEDAR RAPIDS, IA 52498	
UNDER $\phi$ .251±.005-.005	$\phi$ .251 TO $\phi$ .500±.006-.005	INTERFACE/INSTALLATION CONTROL, MDM-2001 UNIT	
OVER $\phi$ .500±.008-.005	ANGLES: ±1.0°	SIZE CAGE DWG NO REV D 95105 693-0445 G	
CONCENTRICITY BETWEEN DIA ON A COMMON AXIS TO BE WITHIN $\phi$ .010	FABRICATE PART PER 489-0100-001	SCALE 1/2 SHEET 1 OF 2	
THIRD ANGLE PROJECTION		GWTY 2D REL 88 CR 2 CV 1 DL 9 EP 9 GPS 9 CAL	

PREP	G. R. SCHUITGER
CHK	R. TERREL
APPD	R. TAYLOR

041-8950-001  
REV 11-87

J1 - DATA AND CONTROL INTERFACE	
1	SHIELD1
2	RXD1
3	TXD1
4	RTS1
5	CTS1
6	DSR1
7	EXT_TX1_CLK
8	TX1_COMMON (FOR PINS 3, 4, 7, 22, 23)
9	
10	TX2_COMMON (FOR PINS 11, 14, 15, 28, 29)
11	EXT_TX2_CLK
12	DSR2
13	CTS2
14	RTS2
15	TXD2
16	RXD2
17	SHIELD2
18	VDP1
19	RX1_CLKOUT
20	TX1_CLKOUT
21	RX1_COMMON (FOR PINS 2, 5, 6, 18, 19, 20)
22	PTT1
23	PTR1
24	RESERVED
25	VFCT_TX_COMMON (FOR PINS 34 - 41)
26	VFCT_RX_COMMON (FOR PINS 43 - 50)
27	RESERVED
28	PTR2
29	PTT2
30	RX2_COMMON (FOR PINS 12, 13, 16, 31, 32, 33)
31	TX2_CLKOUT
32	RX2_CLKOUT
33	VDP2
34	VFCT_TXD1
35	VFCT_TXD2
36	VFCT_TXD3
37	VFCT_TXD4
38	VFCT_TXD5
39	VFCT_TXD6
40	VFCT_TXD7
41	VFCT_TXD8
42	
43	VFCT_RXD1
44	VFCT_RXD2
45	VFCT_RXD3
46	VFCT_RXD4
47	VFCT_RXD5
48	VFCT_RXD6
49	VFCT_RXD7
50	VFCT_RXD8

J2 - RS232 CONTROL INTERFACE	
1	SHIELD
2	TRANSMITTED DATA (CNTRL_RXD)
3	RECEIVED DATA (CNTRL_TXD)
4	RESERVED
5	RESERVED
6	
7	GND
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

J3 - RADIO INTERFACE	
1	RCV1_AUDIOA
2	RCV1_AUDIOB
3	RCV1_AUDIO_SHIELD
4	XMT1_AUDIOC
5	KEYLINE1
6	KEYLINE1_OC
7	RESERVED
8	KEYLINE2_OC
9	KEYLINE2
10	XMT2_AUDIOC
11	RCV2_AUDIO_SHIELD
12	RCV2_AUDIOA
13	RCV2_AUDIOB
14	RCV1_AUDIOC
15	XMT1_AUDIO_SHIELD
16	XMT1_AUDIOA
17	XMT1_AUDIOB
18	KEYLINE1_RTN
19	RESERVED
20	RESERVED
21	KEYLINE2_RTN
22	XMT2_AUDIOA
23	XMT2_AUDIOB
24	XMT2_AUDIO_SHIELD
25	RCV2_AUDIOC

FOR 622-9653-001, -009

REF	EXISTING CONN DESCRIPTION	SLIDE LATCH (IF REQUIRED)	MATING CONNECTOR DESCRIPTION	STRAIN RELIEF	SUGGESTED RIBBON CABLE
J1	371-0386-050 50 PIN FEMALE "D"	263-0175-010	263-0160-050 50 PIN MALE "D"	263-0160-150	208-0091-140
J2	371-0386-030 25 PIN FEMALE "D"		263-0163-030 25 PIN MALE "D"	263-0160-130	208-0091-080
J3	371-0385-030 25 PIN MALE "D"		263-0160-080 25 PIN FEMALE "D"	263-0160-130	208-0091-080
J4	314-0123-010		426-1034-010		

FOR 622-9653-003

REF	EXISTING CONN DESCRIPTION	SLIDE LATCH (IF REQUIRED)	MATING CONNECTOR DESCRIPTION	STRAIN RELIEF	SUGGESTED RIBBON CABLE
J1	371-0386-050 50 PIN FEMALE "D"	263-0175-010	263-0160-050 50 PIN MALE "D"	263-0160-150	208-0091-140
J2	371-0386-030 25 PIN FEMALE "D"		263-0163-030 25 PIN MALE "D"	263-0160-130	208-0091-080
J3	371-0385-030 25 PIN MALE "D"		263-0160-080 25 PIN FEMALE "D"	263-0160-130	208-0091-080
J4	368-0396-010		426-1034-010		

FOR 622-9653-002, -004, -005, -006, -007, -008

REF	EXISTING CONN DESCRIPTION	MATING CONNECTOR DESCRIPTION	CRIMP CONTACT	BACKSHELL	SUGGESTED WIRE 24 GAUGE
J1	371-0386-050 50 PIN FEMALE "D"	371-1085-050 50 PIN MALE "D"	359-1001-020 QTY 50	371-1520-100 371-1520-150 FERRULE	440-4001-000
J2	371-0386-030 25 PIN FEMALE "D"	371-0999-030 25 PIN MALE "D"	359-1001-020 QTY 25	371-1520-060 371-1520-160 FERRULE	440-4001-000
J3	371-0385-030 25 PIN MALE "D"	371-1085-030 25 PIN FEMALE "D"	359-1001-010 QTY 25	371-1520-060 371-1520-160 FERRULE	440-4001-000
J4	314-0123-010	426-1034-010			

CURRENT DESIGN ACTIVITY  
CAGE CODE 13499

PREP R. ANDREWS	SIZE D	CAGE 95105	DWG NO 693-0445	REV G
CHK R. TERRELL	SCALE 1/2		SHEET 2	