NOTES:

1. WINCHESTER ELECTRONICS NOMENCLATURE ARE ENCLOSED IN BRACKETS [ ]
   WHERE NECESSARY TO ENSURE CATALOG NUMBER DOES NOT EXCEED 15 DIGITS

ORDERING INFORMATION

C [UMI] – [ ] [ ] – [ ] – [R] – [BK] – [ ] – [XXX]

C-OPTIONAL CLOSED ENTRY SOCKET CONTACT
NO DESIGNATOR= STANDARD OPEN ENTRY CONTACTS

UMI SERIES DESIGNATOR
MICRO-MINIATURE RACK AND PANEL, 22 AWG CONTACTS, ø.030

NUMBER OF CONTACTS
SPECIFY: 4, 5, 7, 9, 11, 14, 20, 26, 29, 34, 44, 50, OR MS50

CONTACT TYPE DESIGNATOR
M= MALE PIN, SOLDER CUP, (PHOS. BRONZE)= STD- (M28748)
F= FEMALE SOCKET, SOLDER CUP, (PHOS. BRONZE)= STD.
[CUM] –F= FEMALE SOCKET, SOLDER CUP, CLOSED ENTRY
PHOS BRONZE- (M28748)
BF= FEMALE SOCKET, SOLDER CUP, BERYLLIUM COPPER- OPTIONAL

OPTIONAL CONTACT TERMINATION DESIGNATORS

D07 [D1] = ø.023 DIP SOLDER TAIL X .070 IN. LONG
D09 [D2] = ø.023 DIP SOLDER TAIL X .093 IN. LONG
D14 [D3] = ø.023 DIP SOLDER TAIL X .140 IN LONG
D18 [D4] = ø.023 DIP SOLDER TAIL X .180 IN LONG
DD13 [D5] = ø.030 DIP SOLDER TAIL X .125 IN LONG
DD16 [D6] = ø.030 DIP SOLDER TAIL X .156 IN LONG
DD31 [D7] = ø.030 DIP SOLDER TAIL X .310 IN LONG
WW54 [W1] = ø.025 IN SQ NON ROTATING WIRE WRAP TAIL X .540 IN LONG

SPECIAL VARIATION OF STANDARD SERIES
CONSULT FACTORY
* FSC [FC] = SOLDER FILLED CUPS

CONTACT PLATING VARIATION
BLANK [A] = STANDARD GOLD FLASH WILL BE SUPPLIED UNLESS OTHERWISE SPECIFIED.
30 [B] = .000030 IN. GOLD
50 [C] = .000050 IN GOLD (PER M28748)

OPTIONAL REINFORCEMENT MTG BRACKET
BK = DESIGNATOR *TO ORDER BRACKETS SEPARATELY SPECIFY SERIES, NO OF CONTACTS & BK (i.e UMI-29BK)

OPTIONAL HARDWARE POLARIZATION
R = REVERSED HARDWARE DESIGNATOR
2M [M] = 2 MALE GUIDES, SCREWLOCKS OR JACKSCREWS
2F [F] = 2 FEMALE GUIDES, SCREWLOCKS OR JACKSCREWS

HARDWARE VARIATIONS

CONNECTOR WITHOUT HARDWARE
W= NO HARDWARE (i.e. UMI-14M-W)

POLARIZED GUIDES:
BLANK [G]= STANDARD POLARIZED GUIDES (BRASS, GOLD FLASH FINISH) WILL BE SUPPLIED UNLESS OTHERWISE SPECIFIED
SS = STAINLESS STEEL POLARIZED GUIDES .150 MTG. STUD EXTENSION
SS25 [SS2]= STAINLESS STEEL POLARIZED GUIDES .250 MTG. STUD EXTENSION- (PER MIL-28748)

POLARIZED GUIDES WITH HOOD & CABLE CLAMP: (UNAVAILABLE FOR SIZE 4 ONLY)
HR= TOP OPENING HOOD WITH STANDARD POL GUIDES (BRASS, GOLD FLASH)
HS= SIDE OPENING HOOD WITH STANDARD POL GUIDES (BRASS, GOLD FLASH)
SSHR [SHR]= TOP OPENING HOOD WITH STAINLESS STEEL GUIDES .150 MTG STUD EXTENSION
SSHS [SHS]= SIDE OPENING HOOD WITH STAINLESS STEEL GUIDES .150 MTG. STUD EXTENSION.
WHR= TOP OPENING HOOD & CABLE CLAMP-ORDERED SEPARATELY-WITHOUT HDWE. (i.e. UMI-14-WHR)
WHS= SIDE OPENING HOOD & CABLE CLAMP-ORDERED SEPARATELY-WITHOUT HDWE. (i.e. UMI-14-WHS)

LONG TURNABLE SCREWLOCKS WITH HOOD & CABLE CLAMP (HARDWARE USED WITH HOODS ONLY)
1KHR [KT]= TOP OPENING HOOD WITH 2-56 TH'D STAINLESS STEEL SCREWLOCKS- PER MIL-28748
1KHS [KS]= SIDE OPENING HOOD WITH 2-56 TH'D STAINLESS STEEL SCREWLOCKS- PER MIL-28748
WKHR [WT]= TOP OPENING HOOD & CABLE CLAMP-ORDERED SEPARATELY-WITHOUT HDWE (i.e UMI-14-WKHR [UMI-14-WT])
WKHS [WS]= SIDE OPENING HOOD & CABLE CLAMP-ORDERED SEPARATELY-WITHOUT HDWE (i.e SMI-14-WKHS[UMI-14-WS])
1KH [KH]= LONG TURNABLE JACKSCREWS (2-56 TH'D STAINLESS STEEL) USED WITH HOODS ONLY- ORDERED SEPARATELY-(WHEN ORDERING SPECIFY SERIES AND HOOD SIZE, i e UMI-5-1KH [UMI-5-KH])

FIXED SCREWLOCKS-CHASSIS MTG
1SL [SL1]= 2-56 TH'D (STAINLESS STEEL- .150 MTG STUD EXT.)
2SL [SL2]= 3-48 TH'D (STAINLESS STEEL- .150 MTG. STUD EXT.)
1SL25 [SL3]= 2-56 THREAD (STAINLESS STEEL- .250 MTG. STUD EXT.)-PER MIL-28748
2SL25 [SL4]= 3-48 THREAD (STAINLESS STEEL- .250 MTG. STUD EXT.)

SHORT TURNABLE SCREWLOCKS:
1K [K]= 2-56 TH'D (STAINLESS STEEL HARDWARE & KNOB)- PER MIL-28748
1KL [KL]= 2-56 TH'D, SHORT SLOTTED-KNOBLESS (STAINLESS STEEL)
2KL [KL2]= 3-48 THREAD, SHORT SLOTTED-KNOBLESS (STAINLESS STEEL)
1K15 [K15]= 2-56 TH'D SHORT SLOTTED KNOB ø.16 X .28 LONG (STAINLESS STEEL)
1K16 [K16]= 2-56 TH'D SHORT SLOTTED KNOB ø.19 X .32 LONG (STAINLESS STEEL)
1K17 [K17]= 2-56 TH'D 094 HEX SOCKET KNOB ø.16 X .24 LONG (STAINLESS STEEL)
1K18 [K18]= 2-56 TH'D 094 HEX SOCKET KNOB ø.19 X .30 LONG (STAINLESS STEEL)
1K19 [K19]= 2-56 TH'D SHORT SLOTTED KNOB ø.16 X .23 LONG (STAINLESS STEEL)
1K21 [K21]= 2-56 TH'D .078 HEX SOCKET KNOB ø.12 X .20 LONG (STAINLESS STEEL)
1K24 [K24]= 2-56 TH'D .094 HEX SOCKET KNOB ø.16 X .16 LONG (STAINLESS STEEL)
2K15 [K25]= 3-48 TH'D SHORT SLOTTED KNOB ø.16 X .28 LONG (STAINLESS STEEL)
2K16 [K26]= 3-48 TH'D SHORT SLOTTED KNOB ø.19 X .32 LONG (STAINLESS STEEL)
2K17 [K27]= 3-48 TH'D SHORT SLOTTED KNOB ø.16 X .24 LONG (STAINLESS STEEL)
2K18 [K28]= 3-48 TH'D SHORT SLOTTED KNOB ø.19 X .30 LONG (STAINLESS STEEL)

REV ZONE	DESCRIPTION	DATE	APPD
EJ	REVISED & RELEASED PER ECR# 1550 ECR# 1821	11/02/90	JMG

PER ANSI Y14.5M-1982
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
DECIMALS .XX ±
.XXX ±
ANGLES ±
SCALE:

DIST CODE

Litton Winchester Electronics
400 Park Road Watertown, Connecticut 06795

MATERIAL
FINISH

TITLE: COMPOSITE OUTLINE ASSY. UMI- () M/F CONNECTOR

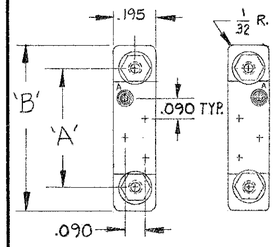
DRAWN	DATE	CHECKED	DATE
A V S.	05/05/88	L V	05/06/88
APPROVED	DATE	APPROVED	DATE
		L V.	05/08/88

C | 093008 | SHT. 1 OF 4 | REV E

June 2006 - This drawing became the property of Winchester Electronics Corporation, Wallingford, CT.

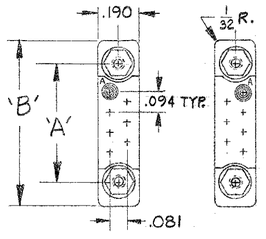
K&E 10 7155 7-79 41727•

UMI-4M UMI-4F



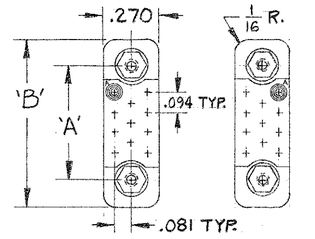
WIRING SIDE SHOWN
(2:1)

UMI-7M SHOWN UMI-7F SHOWN



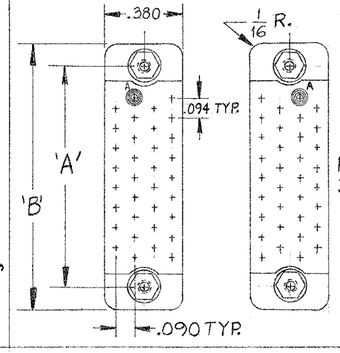
WIRING SIDE SHOWN FOR SIZES 5,7,9
(2:1)

UMI-11M SHOWN UMI-11F SHOWN



WIRING SIDE SHOWN FOR SIZES 11,14,20, 26,29. (2:1)

UMI-34M SHOWN UMI-34F SHOWN

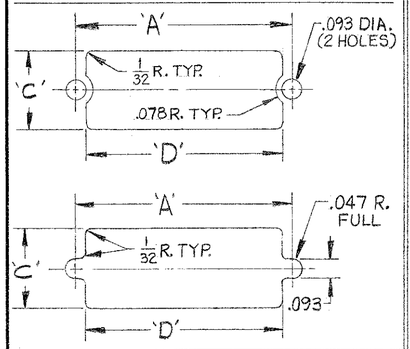


WIRING SIDE SHOWN FOR SIZES 34,44,50 (2:1)

SIZE	'A'	'B'	'C'	'D' +.010 −.000
4	.562	25/32	.195	.468
5	.468	11/16	.190	.375
7	.562	25/32	.190	.468
9	.656	7/8	.190	.562
11	.532	25/32	.270	.438
14	.625	7/8	.270	.531
20	.814	1 1/16	.270	.720
26	1.000	1 1/4	.270	.906
29	1.094	1 11/32	.270	1.000
34	1.032	1 1/4	.380	.938
44	1.281	1 1/2	.380	1.187
50	1.408	1 5/8	.380	1.314

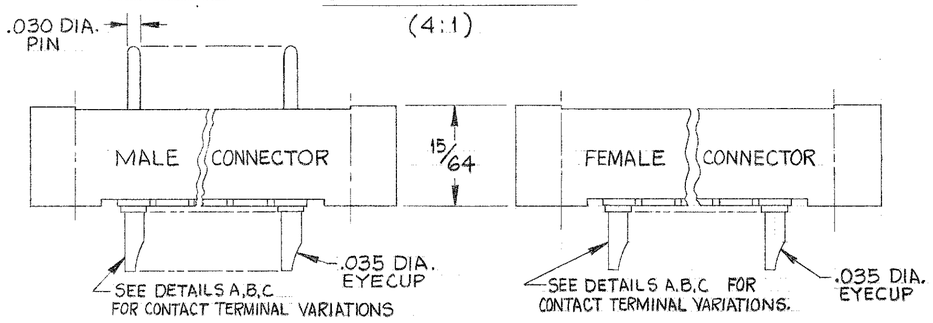
REVISIONS			
SYM.	DESCRIPTION	DATE	APP'D.
E	SEE SHEET 1	11/5/93	

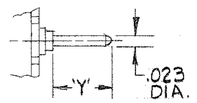
RECOMMENDED PANEL CUT-OUTS



UMI-( )M-W STANDARD — SOLDER CUP TERMINAL — UMI-( )F-W STANDARD

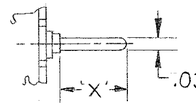
(4:1)





DIP SOLDER TERMINAL DETAIL A (4:1)

TYPE	DIM. 'Y'
D07	.065
D14	.140
D18	.180



DIP SOLDER TERMINAL DETAIL B (4:1)

TYPE	DIM. 'X'
DD13	.125
DD16	.156
DD31	.310

NOTES:

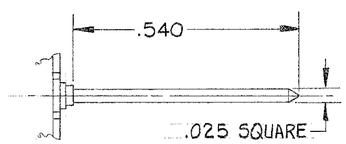
1-MATERIAL & FINISHES:

MOLDING - DIALLYL PHTHALATE PER MIL-M-14, TYPE SDG-F.
CONTACTS - SPRING TEMPER PHOSPHOR BRONZE PER QQ-B-750, GOLD PLATED OVER COPPER OR BERYLLIUM COPPER PER QQ-C-530, GOLD PLATED OVER COPPER.
'C' WASHER - SPRING TEMPER PHOSPHOR BRONZE PER QQ-B-750, GOLD PLATED OVER COPPER.
SCREWLOCKS, NUTS, WASHERS - STAINLESS STEEL NON-MAGNETIC, PASSIVATED.
GUIDES - BRASS ASTM B16, GOLD PLATED OVER COPPER OR STAINLESS STEEL #303, PASSIVATED.
HOODS & C.CLAMPS, BRACKET - ALUMINUM, ANODIZED PER MIL-M-8625A.
KNOBS, SET SCREWS, NUTS - STEEL, CADMIUM PLATED PER QQ-P-416, IRIDESCENT GOLD COLOR.
RET. RING - BRASS PER QQ-B-626, NICKEL PLATED.
C.C. SCREWS - BRASS, CADMIUM PLATED PER QQ-P-416, IRIDESCENT GOLD COLOR.
LOCKWASHER - PHOSPHOR BRONZE, CADMIUM PLATED PER QQ-P-416, IRIDESCENT GOLD COLOR.

2-ELECTRICAL SPECIFICATIONS:

CONTACT SIZE - NO. 22 (.030 DIA.) ACCOMMODATES NO. 22 A.W.G. WIRE.
CONTACT RATING - 5 AMPS.
CREEPAGE PATH BETWEEN CONTACTS - 1/16 MIN.
AIR SPACE BETWEEN CONTACTS - .031 MIN.

	TEST VOLTAGE	WORKING VOLTAGE
SEA LEVEL	1000 VOLTS A.C. RMS.	490 VOLTS D.C.
70,000	300 VOLTS A.C. RMS.	125 VOLTS D.C.



WIRE WRAP TERMINAL DETAIL 'C' (4:1)

EFFECTIVE APRIL 21, 1989 THIS DRAWING BECAME THE PROPERTY OF LITTON SYSTEMS, INCORPORATED WINCHESTER ELECTRONICS DIVISION 400 PARK RD., WATERTOWN, CT 06795

THIS DRAWING, THE DESIGNS, AND IDEAS EMBODIED IN THE DEVICE TO WHICH IT RELATES, AND THE METHODS OF PRODUCING THE DEVICE ARE THE PROPERTY OF U. S. COMPONENTS, INC. AND SHALL NOT BE EMPLOYED, COPIED, OR DISCLOSED TO ANYONE, IN ANY MANNER WITHOUT THE CONSENT OF U. S. COMPONENTS, INC.

NEXT ASS'Y | USED ON

APPLICATION

TOLERANCES UNLESS OTHERWISE SPECIFIED

DECIMALS	FRACTIONS	ANGULAR
± .005	± 1/64	±

U.S. COMPONENTS INC.
35 CARLOUGH ROAD BOHEMIA, N.Y. 11716

TITLE: COMPOSITE OUTLINE ASSY, UMI-( ) M/F CONNECTOR

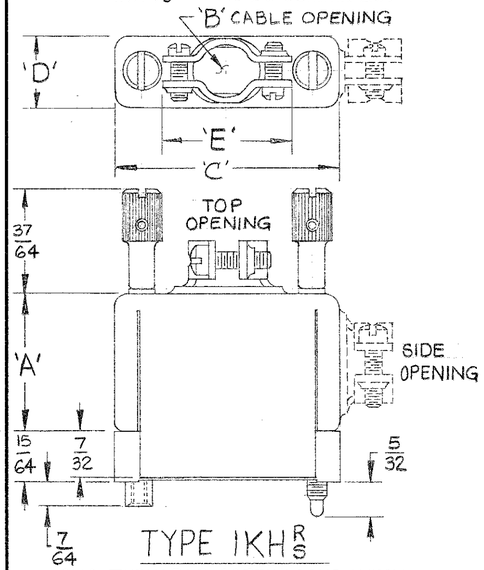
MATERIAL | DRAWN BY TR | DATE 3-18-87

FINISH | APP'D. BY | DATE 4-24-87

SCALE: AS NOTED | DRAWING NUMBER: 093008 SH.2 OF 4 | REV.: E

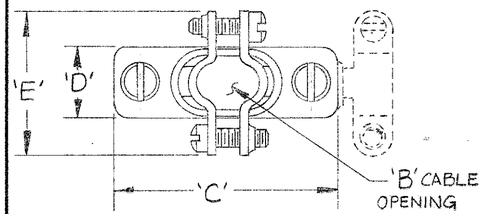
June 2006 - This drawing became the property of Winchester Electronics Corporation, Wallingford, CT.

K&E 10 7155 7-79 41727•

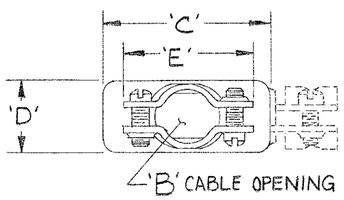


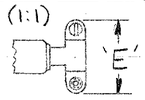
TYPE 1KH R/S

LONG TURNABLE SCREWLOCKS WITH HOOD & CABLE CLAMP (2:1)

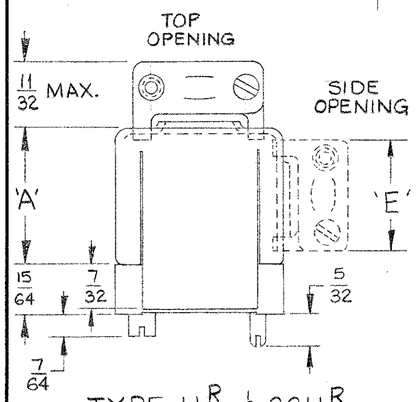


TOP VIEW SHOWN FOR
1KH R/S SIZES 5 THRU 20.



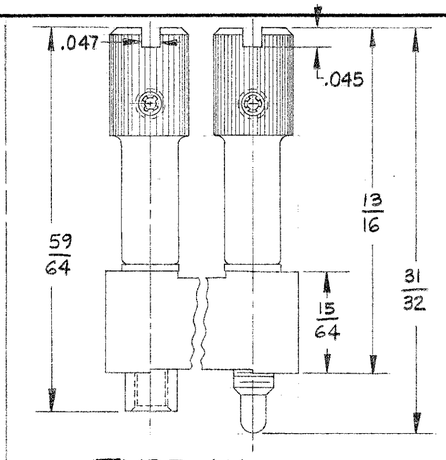


TOP VIEW FOR HS & SSHS SIZES 5 THRU 34 ONLY



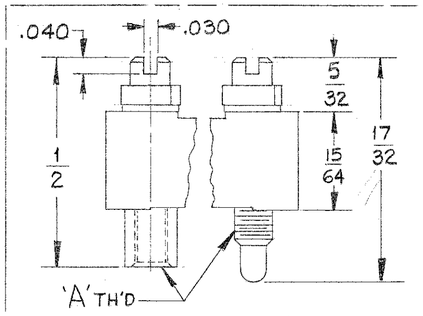
TYPE H R/S & SSH R/S

STANDARD GUIDES WITH HOOD & CABLE CLAMP.
ST. ST. GUIDES WITH HOOD & CABLE CLAMP. (2:1)



TYPE 1K

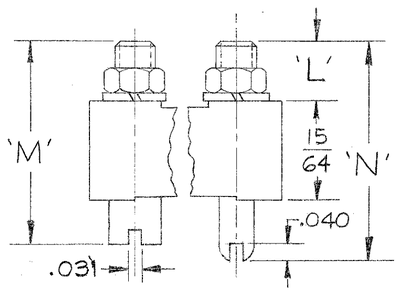
2-56 TH'D SHORT TURNABLE SCREWLOCKS WITH KNOB (4:1)



TYPE 1KL & 2KL

TYPE	'A' THREAD
1KL	2-56
2KL	3-48

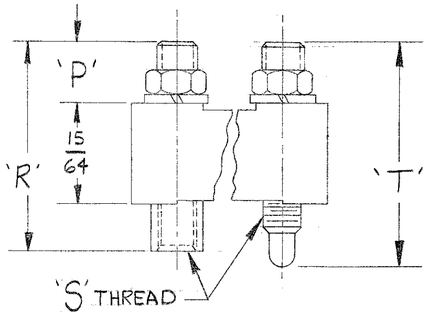
SHORT TURNABLE SCREWLOCKS KNOBLESS (4:1)



TYPE GUIDES

STANDARD POLARIZED BRASS GUIDES OR OPTIONAL STAINLESS STEEL GUIDES .150 MTG STUD EXT. OR .250 MTG. STUD EXT. (4:1)

STYLE	'L'	'M'	'N'
ST'D	.150	.484	.531
SS	.150	.484	.531
SS25	.250	.578	.625

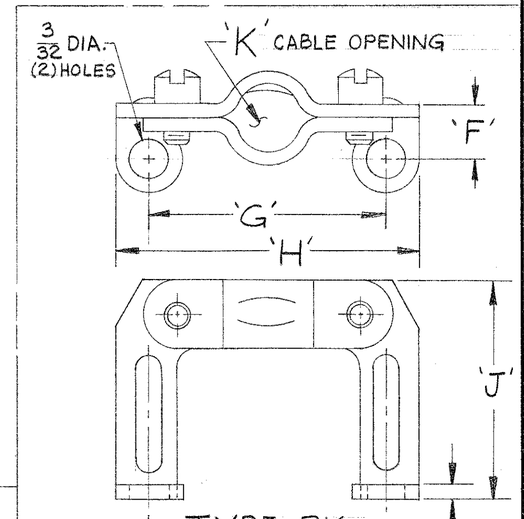


TYPE SCREWLOCKS

FIXED SCREWLOCKS-CHASSIS MTG. (4:1)

STYLE	'P'	'R'	'S' THREAD	'T'
1SL	.150	.500	2-56	.543
2SL	.150	.500	3-48	.543
1SL25	.250	.590	2-56	.630
2SL25	.250	.590	3-48	.630

ON MALE CONNECTORS FEMALE GUIDE OR SCREWLOCK MOUNTED AT 'A' END.
ON FEMALE CONNECTORS MALE GUIDE OR SCREWLOCKS MOUNTED AT 'A' END.



TYPE BK

OPTIONAL CABLE CLAMP BRACKET

SIZE	'D' REF.	'A'	'B' CABLE OPENING 1KH R/S	'B' CABLE OPENING H R/S	'C'	'E' HS & SSHS	'E' HR & SSHR	'E' 1KH R/S	'F' REF.	'G' ±.010	'H' REF.	'J' MAX.	'K' CABLE OPENING REF.
5	1/4	5/8	.18×.33	.18×.24	11/16	19/32	39/64	19/32	—	—	—	—	—
7	1/4	5/8	.18×.33	.18×.33	25/32	19/32	39/64	19/32	.130	.562	.72	.50	.13×.16
9	1/4	5/8	.18×.33	.18×.33	7/8	19/32	39/64	19/32	.130	.656	.81	.50	.13×.16
11	21/64	5/8	.24×.33	.24×.33	25/32	19/32	39/64	19/32	.130	.532	.69	.50	.17×.22
14	21/64	5/8	.24×.33	.24×.33	7/8	19/32	39/64	11/16	.130	.625	.78	.50	.17×.22
20	21/64	5/8	.24×.46	HR .24×.46 HS .18×.31	1 1/16	19/32	53/64	11/16	.130	.814	.97	.87	.26×.31
26	21/64	5/8	.24×.46	.24×.46	1 1/4	11/16	53/64	53/64	.130	1.000	1.16	.87	.39×.44
29	21/64	5/8	.24×.46	.24×.46	1 11/32	11/16	53/64	53/64	.130	1.094	1.25	.87	.39×.44
34	7/16	5/8	.34×.46	.34×.46	1 1/4	11/16	53/64	53/64	.190	1.032	1.19	.87	.42×.47
44	7/16	1 3/16	.34×.46	.34×.46	1 1/2	53/64	53/64	53/64	.190	1.281	1.44	.87	.46×.53
50	7/16	1 3/16	.34×.46	.34×.46	1 5/8	53/64	53/64	53/64	.190	1.408	1.56	.87	.46×.53

REVISIONS			
SYM.	DESCRIPTION	DATE	APP'D.
E	SEE SHEET 1	11/5/19	

EFFECTIVE APRIL 21, 1989 THIS DRAWING BECAME THE PROPERTY OF LITTON SYSTEMS, INCORPORATED WINCHESTER ELECTRONICS DIVISION 400 PARK RD., WATERTOWN, CT 06795

THIS DRAWING, THE DESIGNS, AND IDEAS EMBODIED IN THE DEVICE TO WHICH IT RELATES, AND THE METHODS OF PRODUCING THE DEVICE ARE THE PROPERTY OF U. S. COMPONENTS, INC. AND SHALL NOT BE EMPLOYED, COPIED, OR DISCLOSED TO ANYONE, IN ANY MANNER WITHOUT THE CONSENT OF U. S. COMPONENTS, INC.

NEXT ASS'Y | USED ON

APPLICATION

TOLERANCES UNLESS OTHERWISE SPECIFIED

DECIMALS ± | FRACTIONS ± | ANGULAR ±

U.S. COMPONENTS INC.
35 CARLOUGH ROAD BOHEMIA, N.Y. 11716

TITLE COMPOSITE OUTLINE ASSY, UMI-( )M/F CONNECTOR

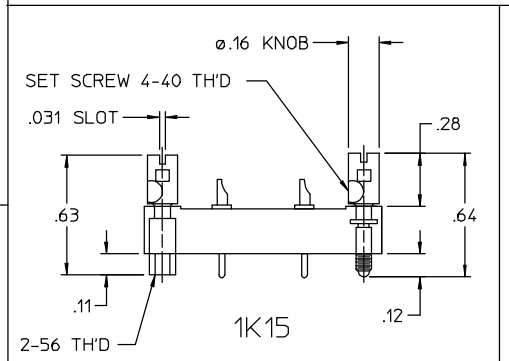
MATERIAL | DRAWN BY BR | DATE 3-23-87

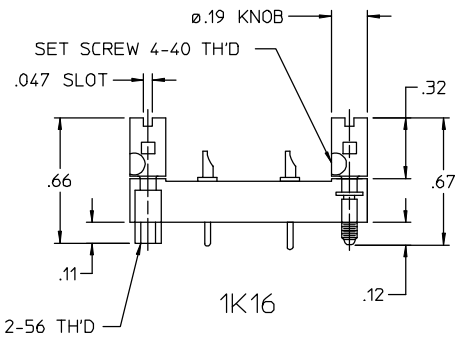
FINISH | APP'D. BY RV | DATE 4-24-87

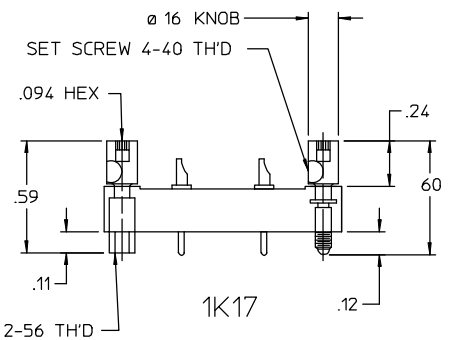
SCALE AS NOTED | DRAWING NUMBER 093008 ST 3 OF 4 | REV. E

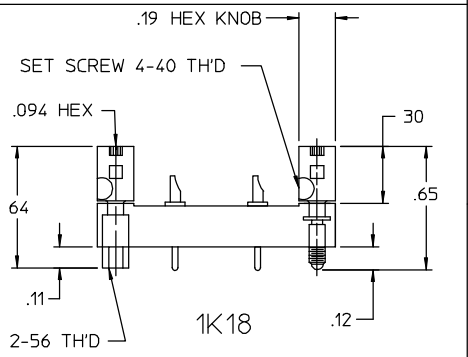
June 2006 - This drawing became the property of Winchester Electronics Corporation, Wallingford, CT.

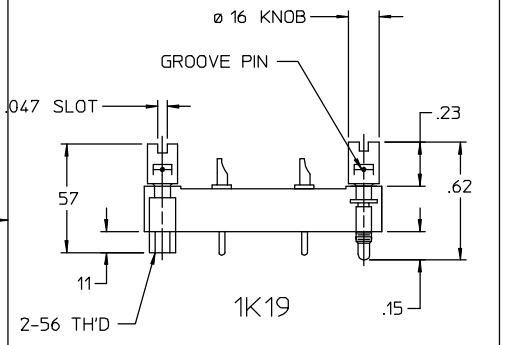
OPTIONAL KNOB CONFIGURATIONS FOR TURNABLE JACKSCREWS

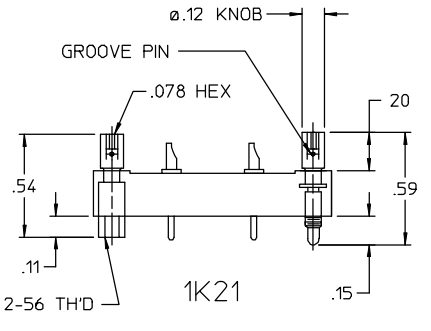


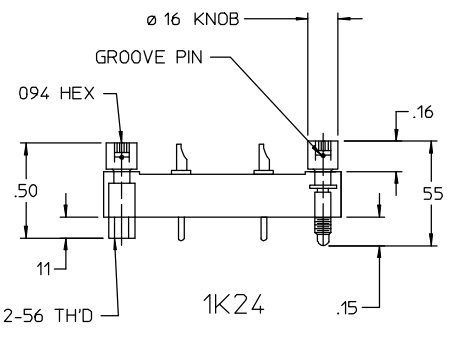


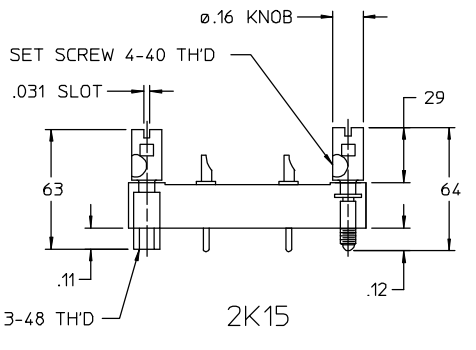


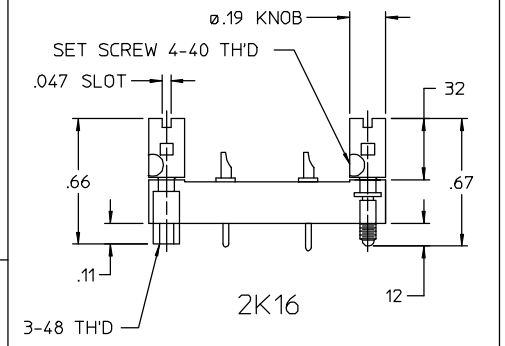


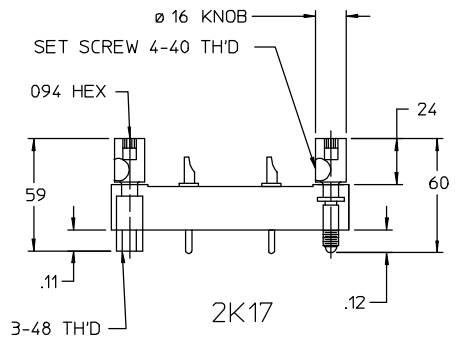


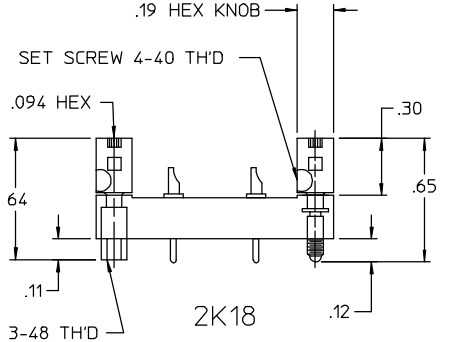












THIS DRAWING THE DESIGNS AND IDEAS EMBODIED IN THE SAME ARE THE PROPERTY OF WINCHESTER ELECTRONICS AND THE DEVICE ARE THE PROPERTY OF WINCHESTER ELECTRONICS. IT IS LOANED SUBJECT TO BEING RECALLED AT ANY TIME, INCORPORATED AND SHALL NOT BE EXPLOITED, COPIED, REPRODUCED OR USED IN ANY WAY WITHOUT THE CONSENT OF WINCHESTER ELECTRONICS

REV	ZONE	DESCRIPTION	BY DATE	APPD
E		REVISED & REDRAWN ECR# 1550 ECR# 1821	J.M.G. 11/05/90	

PER ANSI Y14.5M-1982
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES
DECIMALS .XX ±
.XXX ±
ANGLES ±
SCALE:

DIST. CODE

MATERIAL

FINISH

DRAWN	DATE	CHECKED	DATE
J.M.G.	11/14/90		
APPROVED	DATE	APPROVED	DATE

Litton
Winchester Electronics
400 Park Road
Watertown, Connecticut
06795

TITLE
COMPOSITE OUTLINE ASSY.
UMI- () M/F CONNECTOR

C	093008	SHT. 4 OF 4	REV. E

June 2006 - This drawing became the property of Winchester Electronics Corporation, Wallingford, CT.