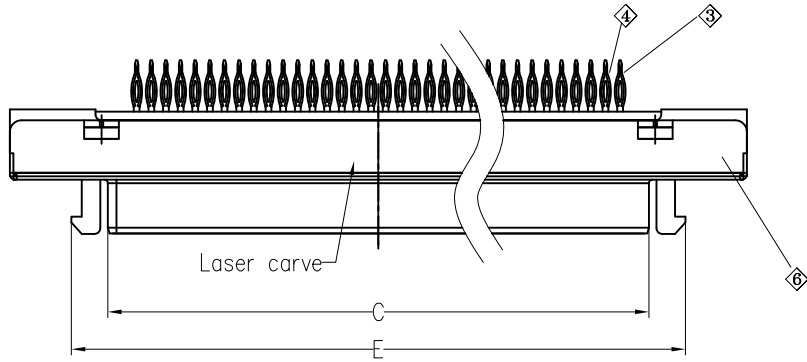


Manufacturing Drawing

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- # Checked for production;
CP Critical dimension.



M858F-XXX-XX-X-X-XXX-X

NO. of ways
036
068
080 ...

Gold plating
1- 30u"
2- 15 u"
3-Gold flash

Append NO.:
000
001
002
...

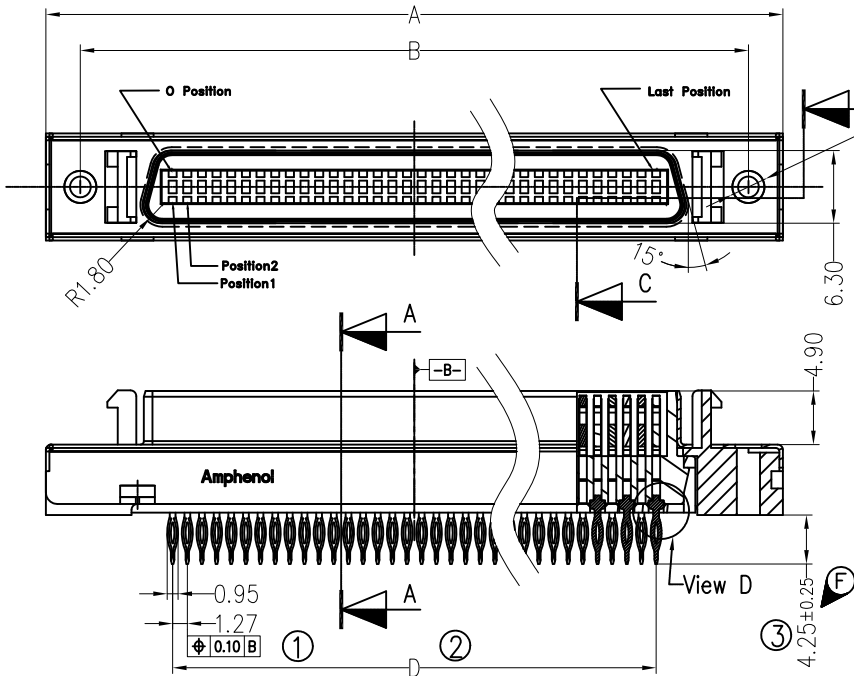
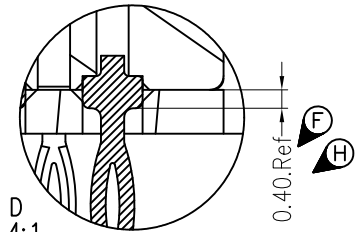
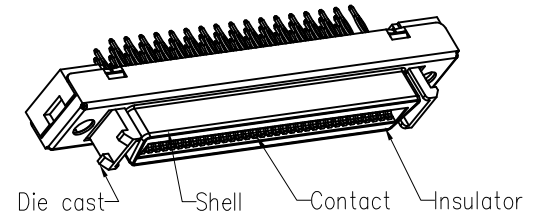
PCB mount
B1: SMT TYPE
B2: Through hole type
B3: Splint type
B4: Press fit type

Board mount
0: W/O any hooding feature
1: Board lock
2: Hooding tab
3: Screw

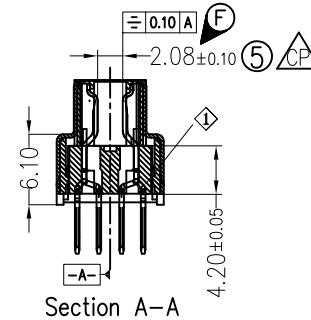
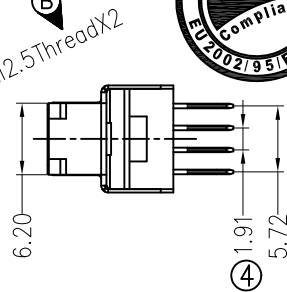
Option Feature
0: Nothing
1: Latch + Thread M2.5
2: Latch + M3

P/N : SYSTEM

REVISIONS				
SYM	ECN	DESCRIPTION	DATE	APPROVED
E	HK4264	change contact DIM. 1.95±0.10 to 2.18±0.10	01/22/07	IP
F	HK4333	change tail pin DIM. 0.40+0.07/-0.03 to 0.40+0.07/-0.05	03/13/07	IP
G	HK4505	Del. view B	06/19/07	IP
H	HK6398	0.40.Ref was 0.40+0.07/-0.05	12/16/10	IP



Contact Quantity	Dimensions					
	A	B	C	D	E	F
36	43.50	37.60	26.60	21.59	33.50	33.90
68	63.80	57.90	46.90	41.91	53.80	54.20
80	71.50	65.60	54.50	49.53	61.50	61.90



F/G/P/N		858-F036-B401-002X	858-F068-B401-002X	858-F080-B401-002X
ITEM NO.	P/N	Quantity	P/N	Quantity
1	858-F036-B4-BY-001	1	858-F068-B4-BY-001	1
2	858-F036-B4-BY-002	1	858-F068-B4-BY-002	1
3	858-F-B4-CN-001-X	18	858-F-B4-CN-001-X	34
4	858-F-B4-CN-002-X	18	858-F-B4-CN-002-X	34
5	Diecast 858FBR0-036-46	1	858FBR0-068-46	1
6	shell 858-F036-B4-SH-001	1	858-F068-B4-SH-001	1

UNLESS OTHERWISE SPECIFIED TOLERANCES U.S. METRIC

.X +/- 0.50
.XX +/- 0.15
.XXX +/- 0.05
FRACTIONS +/- 1"
ANGLES +/-

APPROVAL DATE
DRAWN Bin Di 12/16/10'
CHECKED Tony Tang 12/16/10'
CHECKED

DRAWING FILE :
DRAWING: 858F036B401002X-LDWB

REMOVE SHARP EDGES

DIMENSIONS
U.S. INCHES
METRIC MM

ANGLE OF PROJECTION

Amphenol

TITLE
858 Receptacle Connector, 1.27mm PRESS FIT (Die cast),

SIZE A3
DRAWING NO. M858-FXXX-B401-002X
SCALE NONE
SHEET 1 OF 2

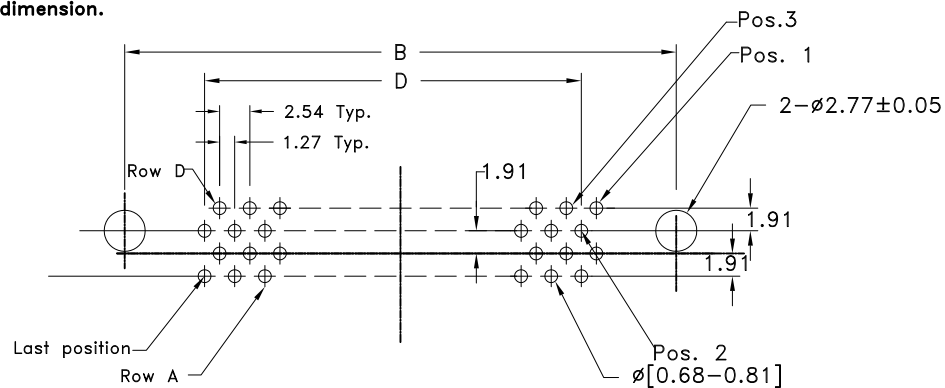
REV. H

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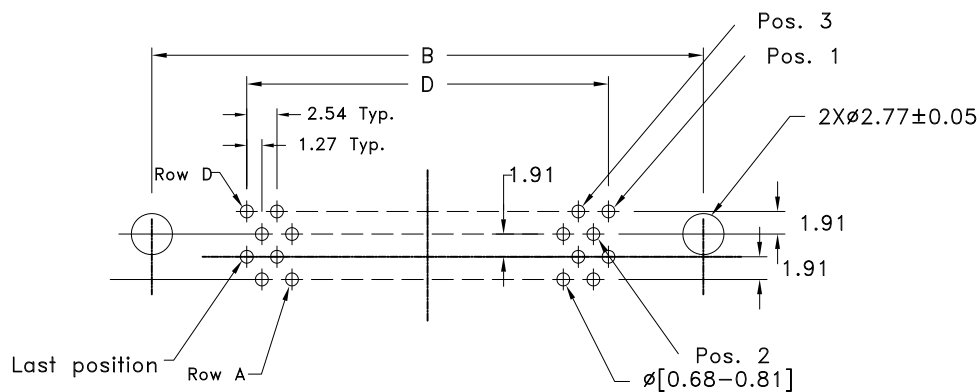
Manufacturing Drawing

Checked for production;

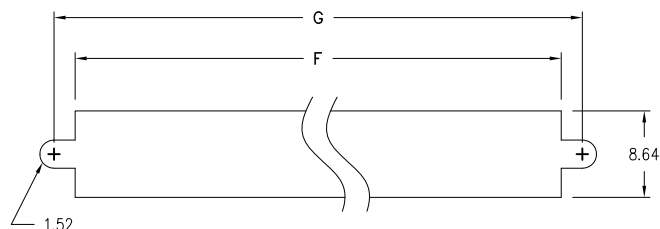
△ Critical dimension.



Recommended PCB Layout 2



Recommended PCB Layout 1



Recommended Panel Cut-out

Note: Panel thinness 2.00 mm MAX.



Note:

1. All dimensions are in mm.

2. Materials

Contact: Phosphor Bronze,

Gold plated on mating area, thickness refer to P/N system.

gold flash plated on termination area

1.27 MIN. Nickel underplated

Shell: Cold Roll Steel,

5.08 MIN. Nickel plated.

Insulator: PPA, color black, UL94V-0 rated.

Plate: PBT, color black, UL94V-0 rated.

Die Cast: ZN alloy.

1.27-3.81 μ m Nickel plated with copper underplated 4 μ m MIN.

3. Mechanical Characteristics

Durability: 500 cycles min. for 0.76 μ m gold

250 cycles min. for 0.38 μ m

50 cycles min. for gold flash

Contact Retention Force: 4.4 N min. per contact with insulator

Mating force: 1.50 N Max/contact

Unmating force: 0.20 N Max/contact

Insertion force for press fit: 147N/pin MAX.

4. Electrical Characteristics

Contact Rating: 1 A.

Contact Resistance: 25 m Ω Max.

Insulation Resistance: 1000 M Ω Min. at 500 VDC

Operation Temperature: -55°C to 75°C

Dielectric Strength: 500 VAC

5. Suitable for PCB with a nominal thickness of 2.40mm to 3.18mm.

6. Material should be fulfilled Amphenol Spec.# SSN002.

△ CRITICAL PARAMETER. SUPPLIER MUST MEET
MINIMUM CPK OF 1.33 WHERE APPLICABLE.
CRITICAL DIMENSION SHOULD BE MEASURED.

UNLESS OTHERWISE SPECIFIED TOLERANCES		APPROVAL		DATE		Amphenol	
U.S.		DRAWN		Bin Di		12/16/10'	
METRIC		CHECKED		Tony Tang		12/16/10'	
.X +/-		.50		.15		.09	
.XX +/-		.15		.09		.05	
.XXX +/-		.09		.05		.03	
FRACTIONS +/-		1"		1"		1"	
ANGLES +/-		1"		1"		1"	
FOR MATERIALS AND FINISHES SEE NOTES		DRAWING FILE :		DRAWING FILE :		DRAWING FILE :	
REMOVE SHARP EDGES		ANGLE OF PROJECTION		ANGLE OF PROJECTION		ANGLE OF PROJECTION	
DIMENSIONS		U.S.		INCHES		U.S.	
METRIC		MM		MM		MM	
SIZE		DRAWING NO.		REV.		H	
A3		M858-FXXX-B401-002X		SHEET 2 OF 2		SHEET 2 OF 2	
SCALE		NONE		SHEET 2 OF 2		SHEET 2 OF 2	

Mouser Electronics

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