

System CS - Technical Specifications

Testing Methods Of Electronic Connectors Follow Below Military Standards:

Dielectric Withstanding Voltage	- Per MIL-STD-1344A method 3001.1
Contact Resistance	- Per MIL-STD-1344A method 3002.1
Insulation Resistance	- Per MIL-STD-1344A method 3003.1
Solderability	- Per MIL-STD-202F method 208D

Shunts & Multiple Shunts

Electrical:

2.0mm Pitch current rating: 1 Amp
2.54mm Pitch current rating: 3 Amps
Dielectric Withstanding: 1000 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 1000 MΩ
Operating Temperature: -40°C - +105°C

Physical:

Insulator: Black, Glass filled Polyester
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze

Stamped Contact DIP IC Sockets

Electrical:

Current rating: 1 Amp
Dielectric Withstanding: 1000 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 1000 MΩ
Operating Temperature: -40°C - +105°C

Physical:

Insulator: Black, Glass filled Polyester
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze

PLCC Sockets

Electrical:

Current rating: 1 Amp
Dielectric Withstanding: 500 VAC for one minute
Contact Resistance: < 30 mΩ
Insulation Resistance: > 1000 MΩ
Capacitance: 1 pF max. at 1000 HZ
Operating Temperature: -40°C - +105°C

Physical:

Through hole type Insulator: Black or Nature, Glass
filled Polyester or High temperature Plastic
Surface mount type Insulator: High temperature plastic
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze

Jumpers

Electrical:

Current rating: 1 Amp
Dielectric Withstanding: 1000 VAC for one minute
Contact Resistance: < 10 mΩ
Insulation Resistance: > 3000 MΩ
Operating Temperature: -40°C - +105°C

Physical:

Insulator: Black, Glass filled Polyester
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze

DDR DIMM Sockets

Electrical:

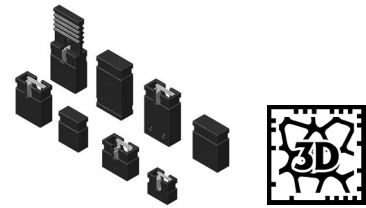
Current/Voltage rating: 0.5A/25VAC for Single Type
0.3A/25VAC for Dual Type
Dielectric Withstanding: 125 VAC for one minute
Contact Resistance: < 60 mΩ for Single Type
< 50 mΩ for Dual Type

Physical:

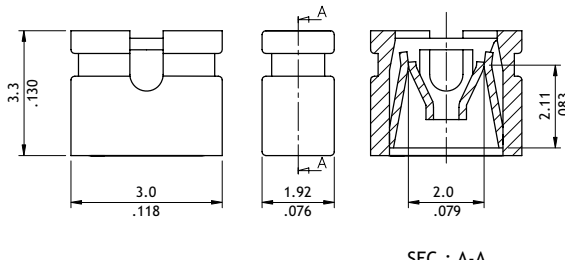
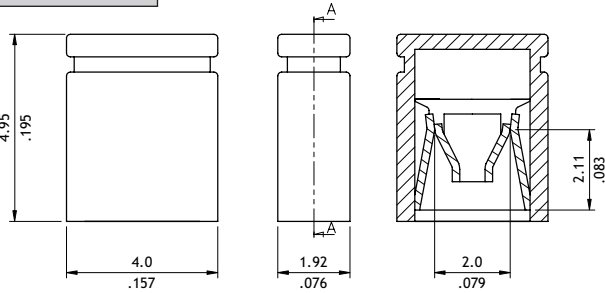
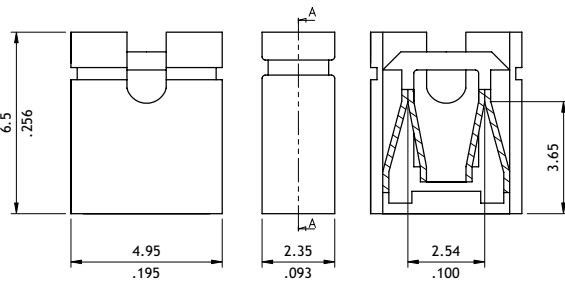
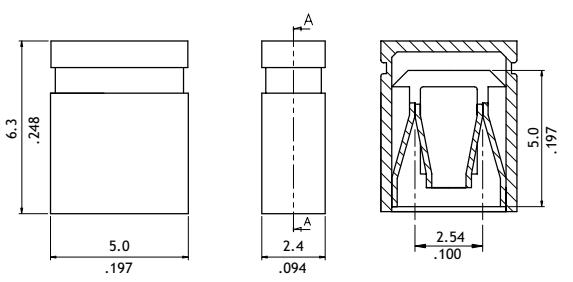
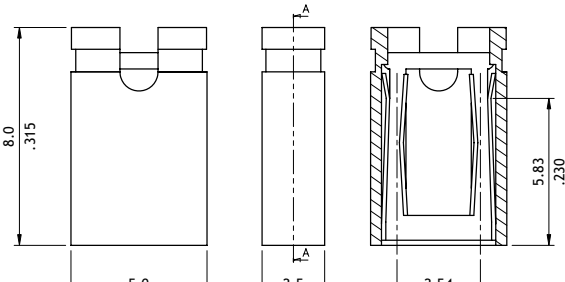
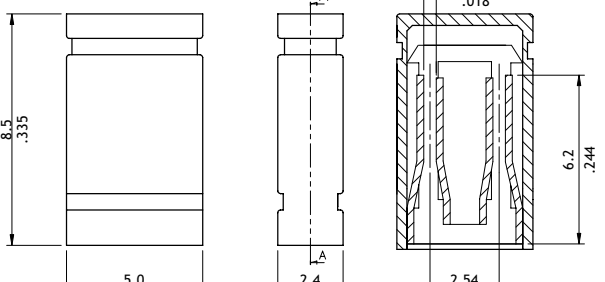
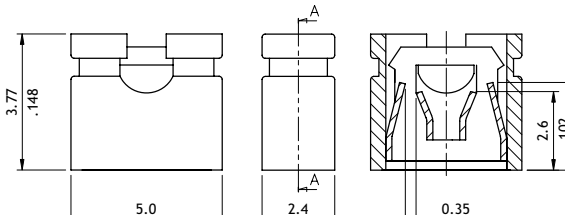
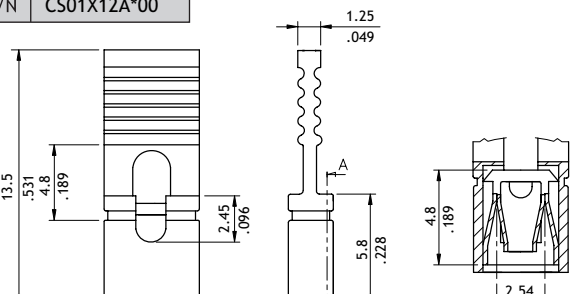
Insulator: LCP
Flammability Rating: UL 94V-0
Contacts: Phosphor Bronze
Plating options: Au under plating Ni
Latch: UL 94V-0 or Stainless, Sn under plating Ni

CS01 Series 2.54mm(.100") Dual Row Multiple Shunts

- Available variety of body height
- Handle type available
- Low cost and reliable
- Color code option "*" 1 = Black, 3 = Red, 7 = Blue
- Gold flash plated as standard



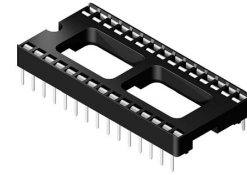
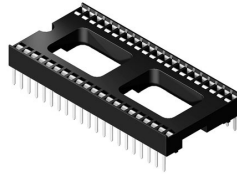
RoHS Compliant

P/N CS01342B*00  SEC.: A-A	P/N CS01502A*00  SEC.: A-A
P/N CS01602B*00  SEC.: A-A	P/N CS01632A*00  SEC.: A-A
P/N CS01802B*00  SEC.: A-A	P/N CS01852A*00  SEC.: A-A
P/N CS01452B*00  SEC.: A-A	P/N CS01X12A*00  SEC.: A-A

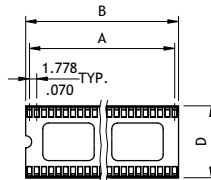
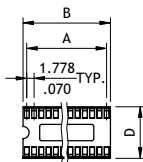
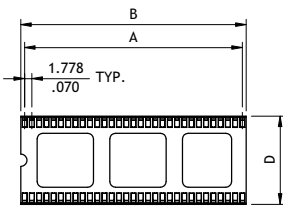
CS04/05 Series 1.778/2.54mm (.070/.100")DIP Socket-Stamped contacts

- With stand off prevent flux wicking
- Insulator: Glass filled polyester
- Contact: Pre-tinned Phosphor Bronze

RoHS Compliant

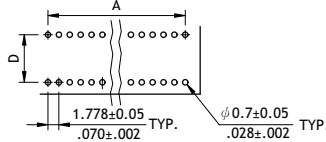
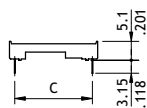
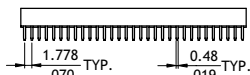


P/N CS04**11000



Typical 16,20,22 Circuits

Typical 24,30,32,40,42,52,56 Circuits

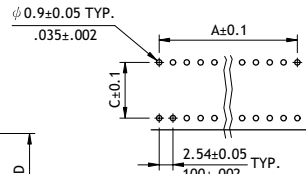
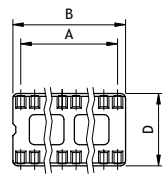
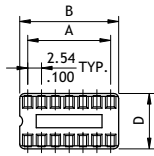


Typical 64 Circuits

Recommended PC Board Layout

Circuits	Dimension			
	A	B	C	D
16	12.45(.490)	14.22(.560)	7.62(.300)	10.1(.398)
20	16.00(.630)	17.78(.700)	7.62(.300)	10.1(.398)
22	17.78(.700)	19.55(.770)	7.62(.300)	10.1(.398)
24	19.56(.770)	21.33(.840)	10.16(.400)	12.6(.496)
30	24.89(.980)	26.67(1.050)	10.16(.400)	12.6(.496)
32	26.67(1.050)	28.45(1.120)	10.16(.400)	12.6(.496)
40	33.78(1.330)	35.56(1.400)	15.24(.600)	17.72(.698)
42	35.56(1.400)	37.34(1.470)	15.24(.600)	17.72(.698)
48	40.89(1.610)	42.67(1.680)	15.24(.600)	17.72(.698)
52	44.45(1.750)	46.22(1.820)	15.24(.600)	17.72(.698)
56	48.01(1.890)	49.78(1.960)	15.24(.600)	17.72(.698)
64	55.12(2.170)	56.90(2.240)	19.05(.750)	21.5(.846)

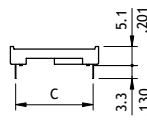
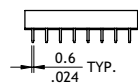
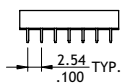
P/N CS05**11000



Typical 6,8,14,16,18
20,22,24,28 Circuits

Typical 24,28,32
40,42,48 Circuits

Recommended PC Board Layout



Circuits	P/N	Dimension			
		A	B	C	D
6	CS050611000	5.08(.200)	7.62(.300)	7.62(.300)	10.16(.400)
8	CS050811000	7.62(.300)	10.16(.400)	7.62(.300)	9.9(.390)
14	CS051411000	15.24(.600)	17.78(.700)	7.62(.300)	9.9(.390)
16	CS051611000	17.78(.700)	20.32(.800)	7.62(.300)	9.9(.390)
18	CS051811000	20.32(.800)	22.86(.900)	7.62(.300)	9.9(.390)
20	CS052011000	22.86(.900)	25.40(1.000)	7.62(.300)	9.9(.390)
22	CS052211000	25.40(1.000)	27.94(1.100)	7.62(.300)	9.9(.390)
24	CS05241100A	27.94(1.100)	30.48(1.200)	7.62(.300)	9.9(.390)
	CS052411A00			15.24(.600)	17.5(.689)
	CS052411A0A			7.62(.300)	9.9(.390)
	CS05281100A			15.24(.600)	17.5(.689)
28	CS052811A00	33.02(1.300)	35.56(1.400)	15.24(.600)	17.5(.689)
32	CS053211A00	38.10(1.500)	40.64(1.600)	15.24(.600)	17.5(.689)
40	CS054011A00	48.26(1.900)	50.80(2.000)	15.24(.600)	17.5(.689)
42	CS054211A00	50.80(2.000)	53.34(2.100)	15.24(.600)	17.5(.689)
48	CS054811A00	58.42(2.300)	60.96(2.400)	15.24(.600)	17.5(.689)

Ordering Code

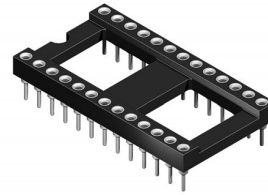
① CS ② 0 ③ 4 ④ 6 ⑤ 4 ⑥ 1 ⑦ 1 ⑧ 0 ⑨ 0 ⑩ 0

- ① Series No.: CS04, CS05
- ② No. of Circuits: See above table
- ③ Plating Code: 1 = Tin over Nickel
- ④ Color: 1 = Black
- ⑤ Options: Please check detail in table

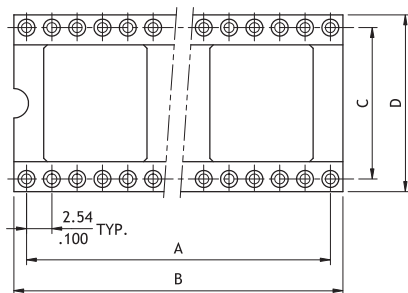
- ⑥ Other Options:
00 = Standard
0A = With Bracket
*Special options consult manufacturer

CS07 Series 2.54mm (.100") DIP Socket - Machined contacts

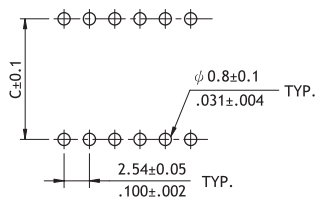
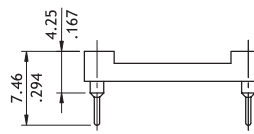
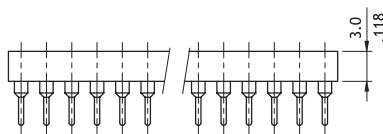
- ⦿ High reliability screwed machined terminals with multiple finger contacts
- ⦿ Sealed and prevent flux wicking
- ⦿ Insulator: Glass filled polyester
- ⦿ Contact: Gold plated Beryllium copper
- ⦿ Sleeve: Tin plated copper alloy



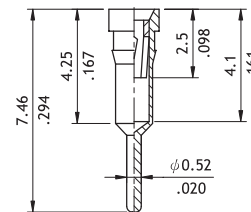
RoHS Compliant



Circuits	CviLux P/N	Dimension			
		A	B	C	D
6	CS0706D1000	5.08(.200)	7.62(.300)	7.62(.300)	10.04(.395)
8	CS0708D1000	7.62(.300)	10.16(.400)	7.62(.300)	10.04(.395)
14	CS0714D1000	15.24(.600)	17.78(.700)	7.62(.300)	10.04(.395)
16	CS0716D1000	17.78(.700)	20.32(.800)	7.62(.300)	10.04(.395)
18	CS0718D1000	20.32(.800)	22.86(.900)	7.62(.300)	10.04(.395)
20	CS0720D1000	22.86(.900)	25.40(1.000)	7.62(.300)	10.04(.395)
24	CS0724D1000	27.94(1.100)	30.48(1.200)	7.62(.300)	10.04(.395)
	CS0724D1A00			15.24(.600)	17.72(.698)
28	CS0728D1000	33.02(1.300)	35.56(1.400)	7.62(.300)	10.04(.395)
	CS0728D1A00			15.24(.600)	17.72(.698)
32	CS0732D1A00	38.10(1.500)	40.64(1.600)	15.24(.600)	17.72(.698)
40	CS0740D1A00	48.26(1.900)	50.80(2.000)	15.24(.600)	17.72(.698)
42	CS0742D1A00	50.80(2.000)	53.34(2.100)	15.24(.600)	17.72(.698)
48	CS0748D1A00	58.42(2.300)	60.96(2.400)	15.24(.600)	17.72(.698)



Recommended P.C. Board Layout



Pin detail

Ordering Code

1 **2** **3** **4** **5**
CS 0 7 **4 8** **D** **1** **0 0 0**

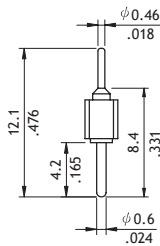
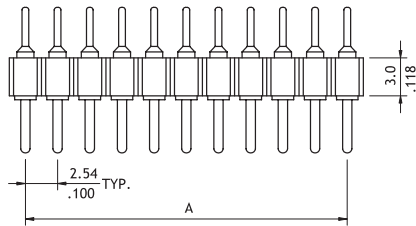
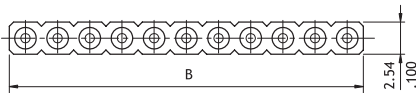
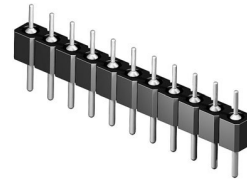
- 1** Series No.
- 2** No. of Circuits: See above table
- 3** Plating Code:
D = Tin plated sleeve with 10μ in Gold plated contact

- 4** Color: 1 = Black
- 5** Other Options:
000 = DIM.D: 10.04mm
A00 = DIM.D: 17.72mm
*Special options consult manufacturer

CS09 Series 2.54mm(.100") Single in Line Adapter Strip

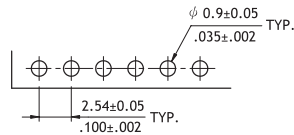
- ⊙ Machined contact
- ⊙ Highly reliable board interconnecting

RoHS Compliant 



$$A = 2.54 * \text{No. of Spaces}$$

$$B = A + 2.44$$



Recommended P.C. Board Layout

Ordering Code

① CS 09 ② 40 ③ 2 ④ 1 ⑤ A00

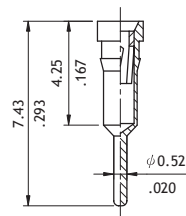
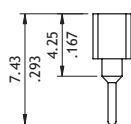
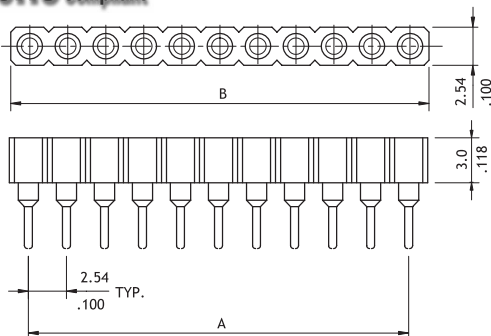
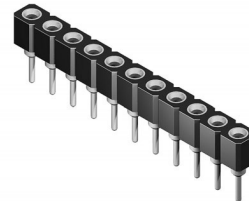
- ① Series No.
- ② No. of Circuits: 02 to 40
- ③ Plating Code: 2 = Gold flash over Nickel

- ④ Color: 1 = Black
- ⑤ Other Options:
A00 = Standard
*Special options consult manufacturer

CS10 Series 2.54mm(.100") Single in Line SIP Socket

- ⊙ High reliability screwed machined terminals with multiple finger contacts
- ⊙ Sealed and prevent flux wicking
- ⊙ Insulator: PPS UL 94V-0
- ⊙ Contact: Gold plated Beryllium copper

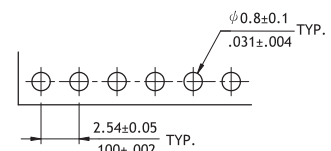
RoHS Compliant



Pin detail

$$A = 2.54 * \text{No. of Spaces}$$

$$B = A + 2.44$$



Recommended P.C. Board Layout

Ordering Code

① CS 10 ② 40 ③ D ④ 1 ⑤ 000

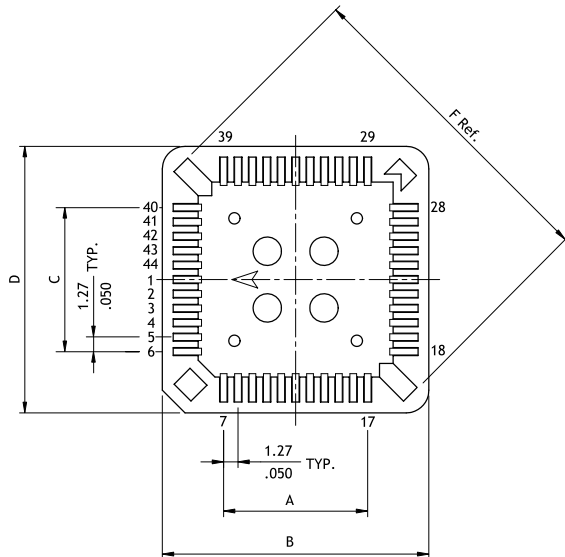
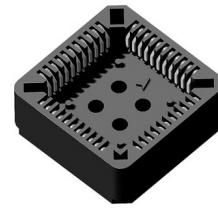
- ① Series No.
- ② No. of Circuits: 04 to 80
- ③ Plating Code: D = Tin plated sleeve with Gold flash plated contact

- ④ Color: 1 = Black
- ⑤ Other Options:
000 = Standard
*Special options consult manufacturer

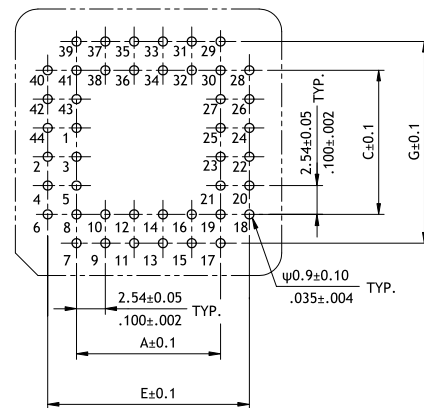
CS21 Series 1.27mm(.050") DIP PLCC Chip Carrier Socket

- With standoff prevent flux wicking
- Low cost and reliable
- Insulator: Glass filled polyester
- Contact: Tin plated Phosphor Bronze

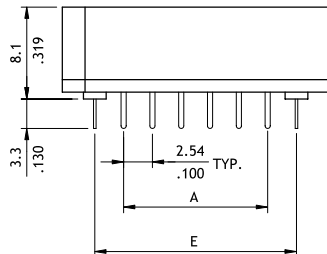
RoHS Compliant



Available for 20,28,32,44,52,68,84 Circuits



Recommended P.C. Board Layout



Circuits	Dimension						
	A	B	C	D	E	F	G
20	5.08(.200)	15.5(.610)	5.08(.200)	15.5(.610)	10.16(.400)	16.8(.661)	10.16(.400)
28	7.62(.300)	18.0(.709)	7.62(.300)	18.0(.709)	12.70(.500)	20.7(.815)	12.70(.500)
32	10.16(.400)	20.6(.811)	7.62(.300)	18.0(.709)	15.24(.600)	22.6(.890)	12.70(.500)
44	12.70(.500)	23.5(.926)	12.70(.500)	23.5(.926)	17.78(.700)	28.4(1.118)	17.78(.700)
52	15.24(.600)	25.9(1.020)	15.24(.600)	25.9(1.020)	20.32(.800)	31.7(1.248)	20.32(.800)
68	20.32(.800)	31.66(1.246)	20.32(.800)	31.66(1.246)	25.40(1.000)	39.2(1.543)	25.40(1.000)
84	25.40(1.000)	36.66(1.443)	25.40(1.000)	36.66(1.443)	30.48(1.200)	46.2(1.819)	30.48(1.200)

Ordering Code

1
CS 2 1

2
8 4

3
1

4
1

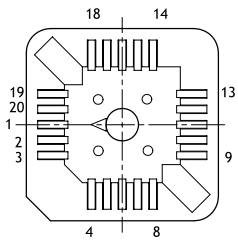
5
0 0 0

- 1** Series No.
- 2** No. of Circuits: See above table
- 3** Plating Code: 1 = Tin over Nickel
- 4** Color: 1 = Black (PBT)
0 = Nature (PPS)

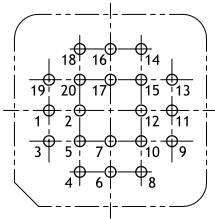
- 5** Other Options:
000 = PBT (Standard)
A00 = PPS
*Special options consult manufacturer

CS21 Series 1.27mm(.050") DIP PLCC Chip Carrier Socket

20 Circuits

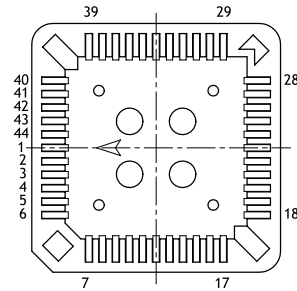


Top View

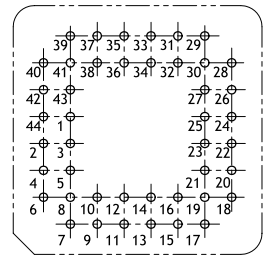


P. C. Board Hole Pattern

44 Circuits

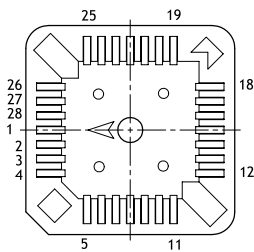


Top View

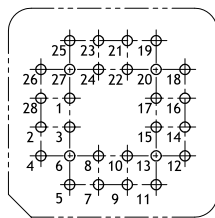


P. C. Board Hole Pattern

28 Circuits

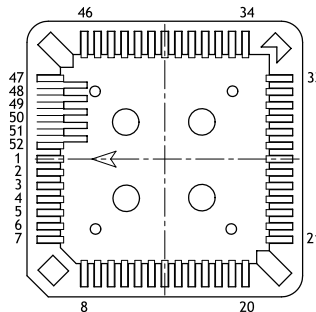


Top View

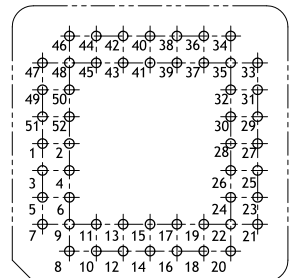


P. C. Board Hole Pattern

52 Circuits

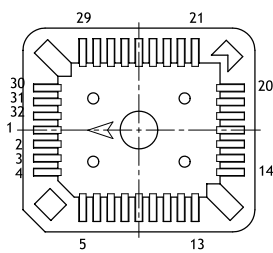


Top View

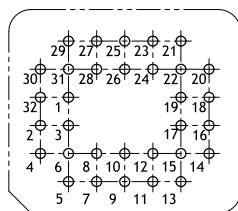


P. C. Board Hole Pattern

32 Circuits

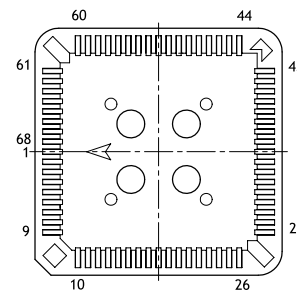


Top View

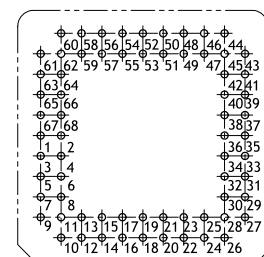


P. C. Board Hole Pattern

68 Circuits

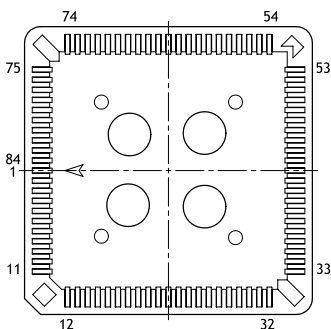


Top View

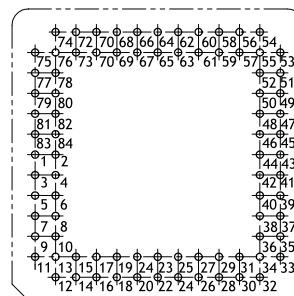


P. C. Board Hole Pattern

84 Circuits



Top View

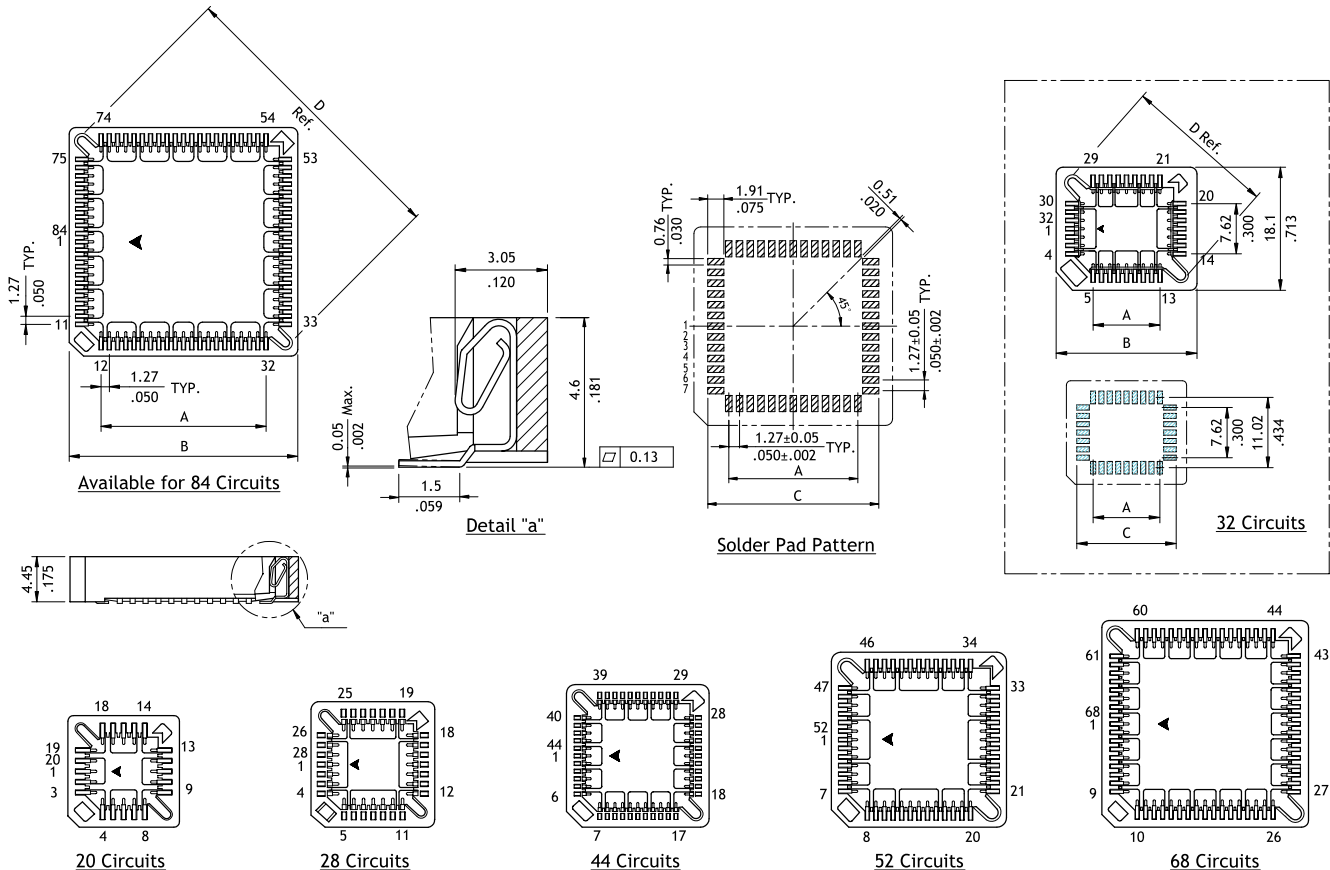
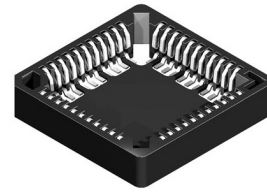


P. C. Board Hole Pattern

CS22 Series 1.27mm(.050") SMT PLCC Chip Carrier Socket

- With standoff prevent flux wicking
- Low cost and reliable
- Insulator: Glass filled polyester
- Contact: Tin plated Phosphor Bronze

RoHS Compliant



Circuits	Dimension			
	A	B	C	D
20	5.08(.200)	15.66(.617)	10.03(.395)	17.28(.680)
28	7.62(.300)	18.20(.717)	12.57(.495)	20.87(.822)
32	10.16(.400)	20.70(.815)	15.11(.595)	22.80(.898)
44	12.70(.500)	23.28(.917)	17.65(.695)	28.10(1.106)
52	15.24(.600)	25.82(1.017)	20.19(.795)	31.65(1.246)
68	20.32(.800)	30.90(1.217)	25.27(.995)	38.85(1.530)
84	25.40(1.000)	35.98(1.417)	30.35(1.195)	46.50(1.831)

Ordering Code

① CS ② 2 ③ 1 ④ 1 ⑤ 000

- ① Series No.
- ② No. of Circuits: See above table
- ③ Plating Code: 1 = Tin over Nickel
- ④ Color: 0 = Nature

- ⑤ Other Options:
000 = Standard
0R0 = Tape & Reel
*Special options consult manufacturer

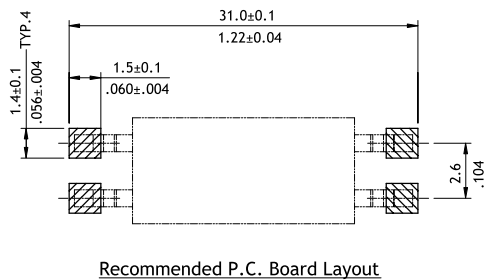
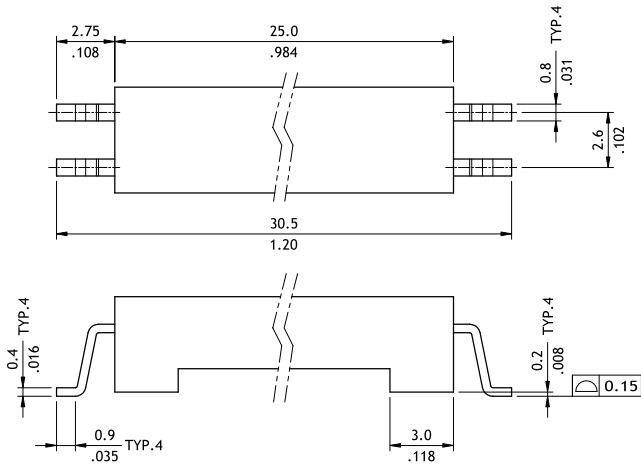
CS30 Series 2.60mm(.102") Jumper

- Insulator: Nylon 6T UL 94V-0
- Contact: Tin plated Brass

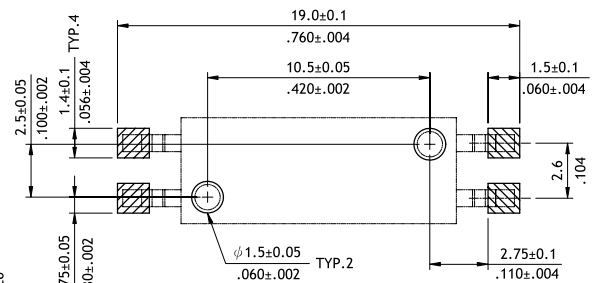
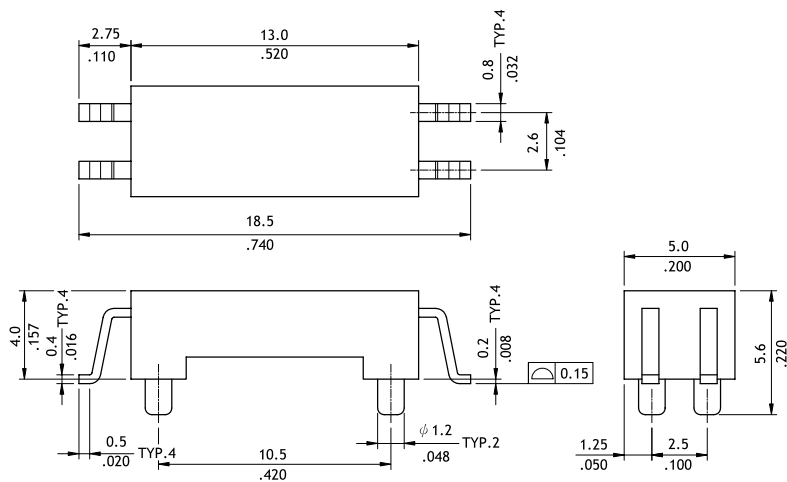
RoHS Compliant



P/N CS304525110



P/N CS304013110



Ordering Code

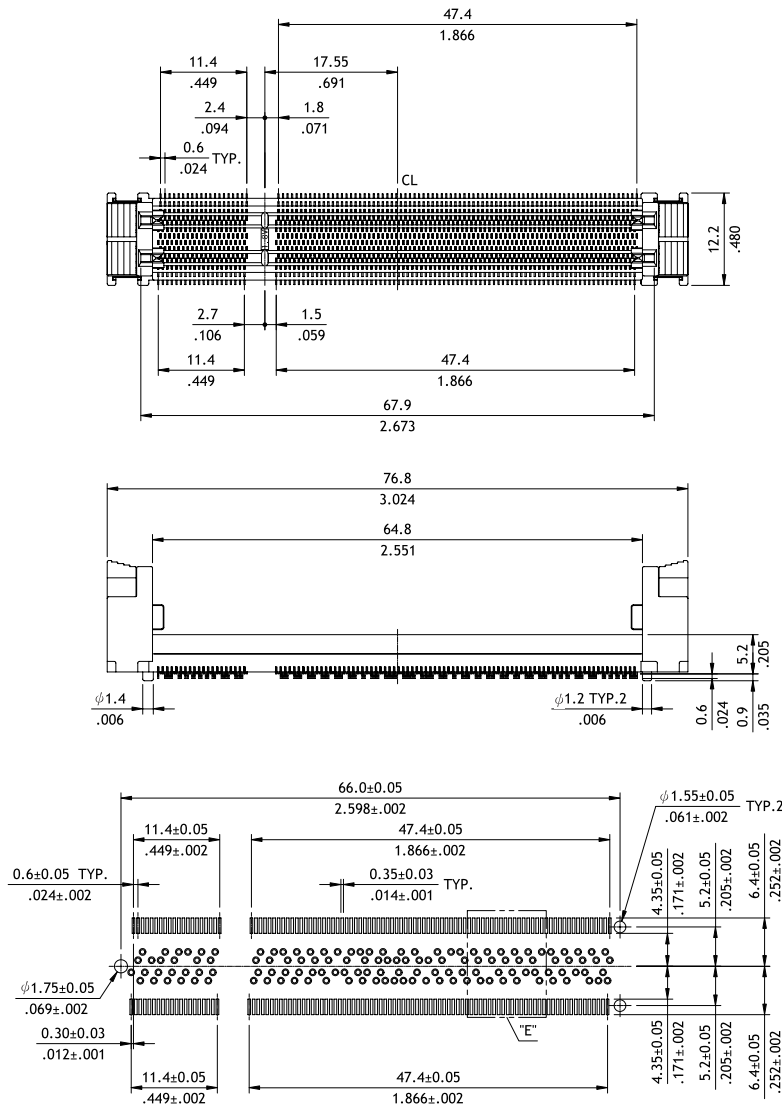
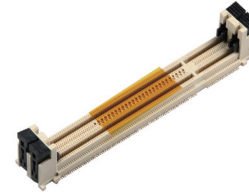
① CS ② 3 ③ 0 ④ 4 ⑤ 5 ⑥ 2 ⑦ 5 ⑧ 1 ⑨ 1 ⑩ 0

- ① Series No.
- ② Insulator Height: 45 = 4.5mm
40 = 4.0mm
- ③ Insulator Width: 25 = 25mm (4.5mm Height)
13 = 13mm (4.0mm Height)
- ④ Plating Code:
1 = Matte Tin over Nickel
- ⑤ Color: 1 = Black
- ⑥ Other Options:
0 = Standard
*Special options consult manufacturer

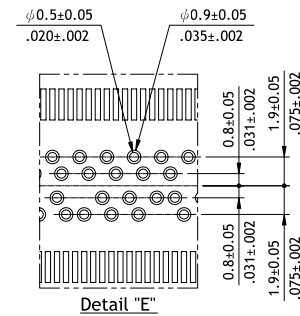
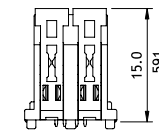
CS68 Series Dual DDR2 S.O DIMM Socket

- Insulator: LCP UL 94V-0
- Contact: Copper Alloy
- Power supply: 1.8V

RoHS Compliant  



Recommended P.C. Board Layout



Ordering Code

1 **2** **3** **4** **5**
CS 6 8 **3 3 1** **2** **0** **M 0**

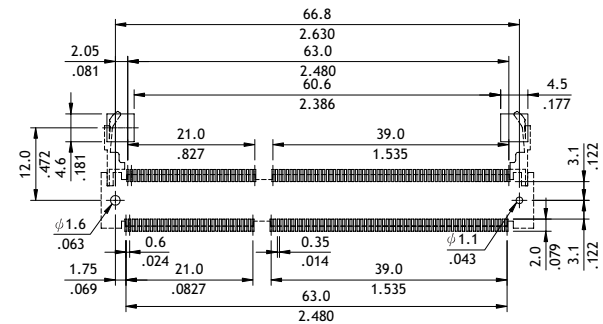
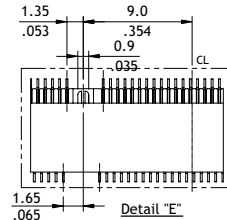
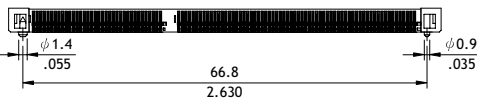
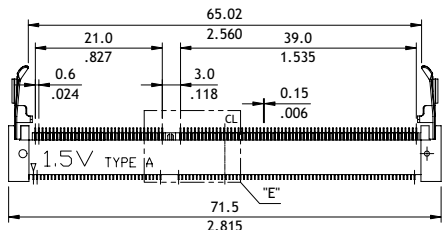
- 1** Series No.
- 2** No. of Circuits: 331
- 3** Plating Code:
2 = Gold flash over Nickel
- 4** Color: 0 = Nature
- 5** Other Options:
M0 = Standard (With Mylar)

CS69 Series DDR3 S.O DIMM Socket H=4.0

- Insulator: LCP UL 94V-0
- Contact: Copper Alloy
- Power supply: 1.5V

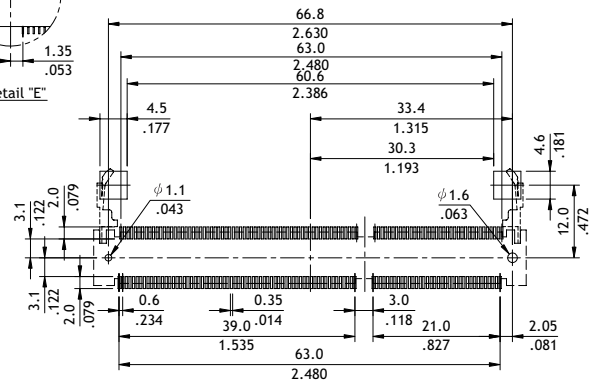
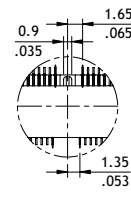
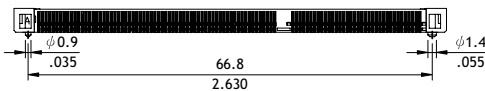
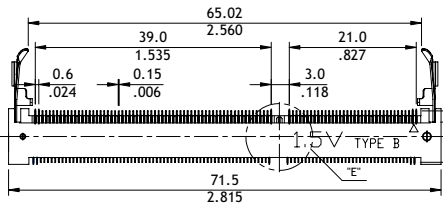
RoHS Compliant  

P/N CS692042BA0-**



Recommended P.C. Board Layout

P/N CS692042BB0-**



Recommended P.C. Board Layout

Ordering Code

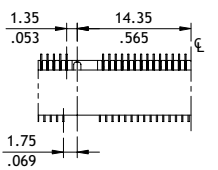
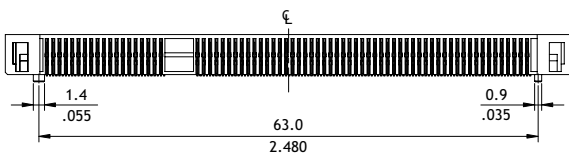
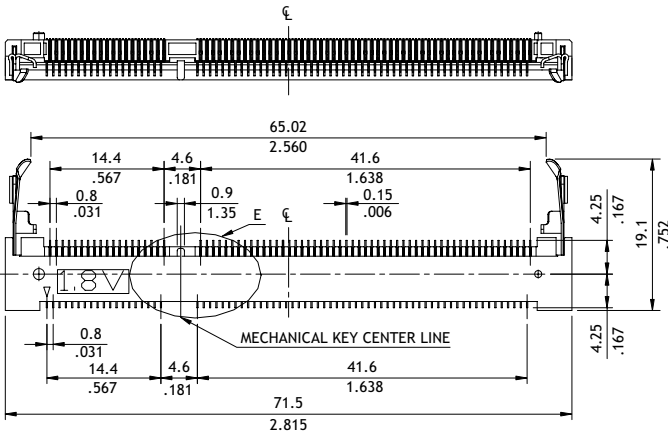
1 **2** **3** **4** **5** **6**
CS 6 9 2 0 4 2 B A 0 - 0 0

- 1** Series No.
- 2** No. of Circuits: 204
- 3** Plating Code:
2 = Gold flash over Nickel
- 4** Height: B = 4.0mm
- 5** Type: A0 = A Type
B0 = B Type
- 6** Other Options:
00 = Standard (Tray Packing)
R0 = Tape & Reel

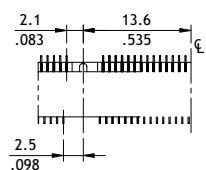
CS69 Series DDR1&DDR2 S.O DIMM Socket H=5.2

- Insulator: LCP UL 94V-0
- Contact: Copper Alloy
- Power supply: 1.8V & 2.5V

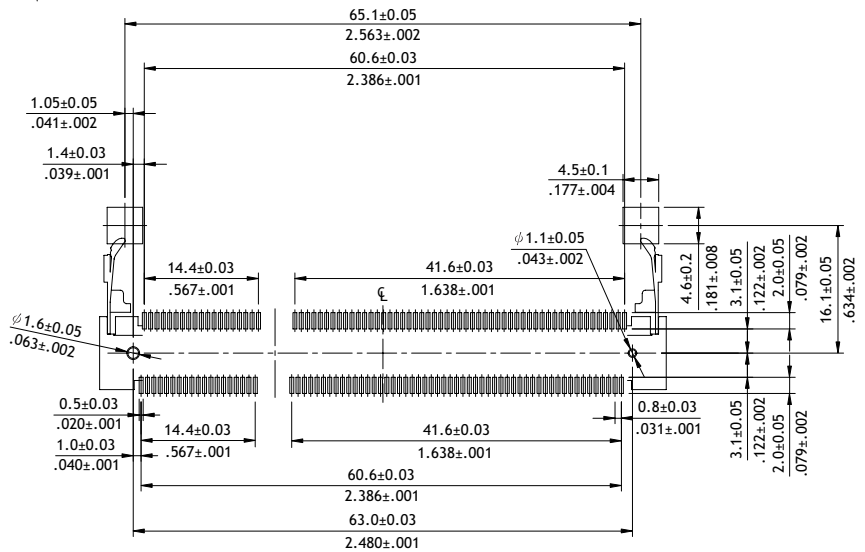
RoHS Compliant



DETAIL E : TYPE1



DETAIL E : TYPE2



Recommended P.C. Board Layout

Ordering Code

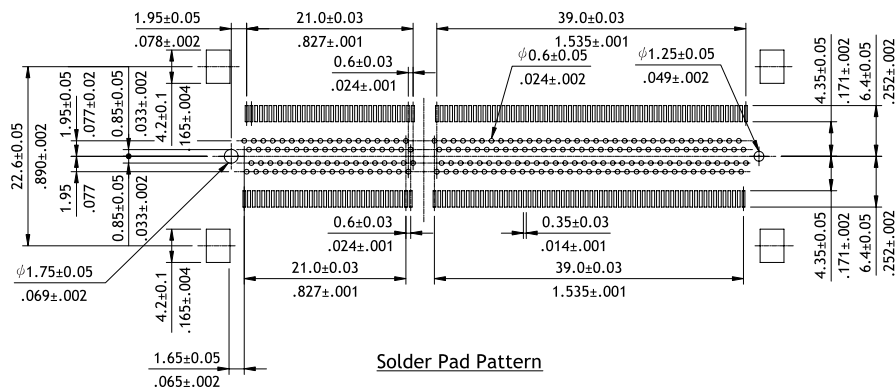
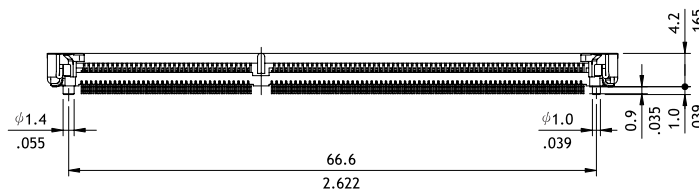
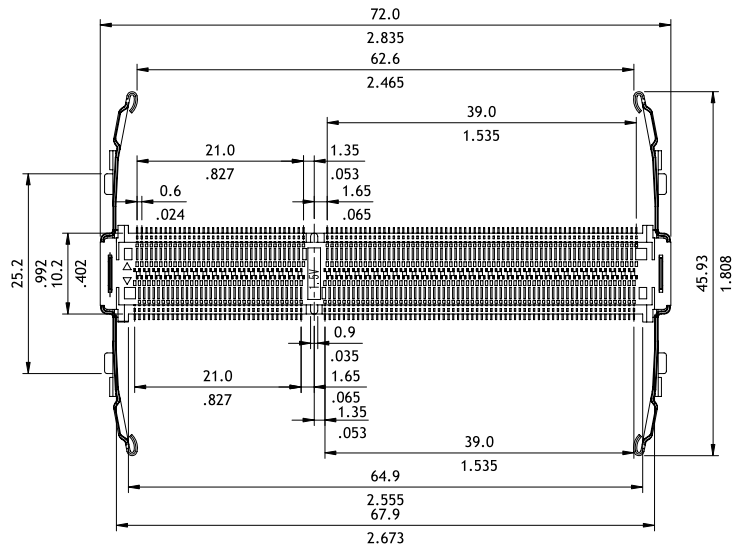
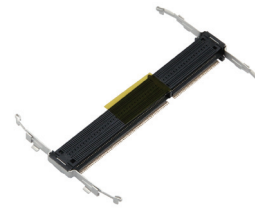
① CS ② 6 ③ 9 ④ 1 ⑤ 4 ⑥ 4 ⑦ 2 ⑧ C ⑨ A ⑩ 0 ⑪ - ⑫ 0 ⑬ 0

- ① Series No.
- ② No. of Circuits: 144
- ③ Plating Code:
2 = Gold flash over Nickel
- ④ Height: A = 5.2mm
- ⑤ Type: A0 = Type 2 (Power supply 1.8V)
A1 = Type 1 (Power supply 2.5V)
- ⑥ Other Options:
00 = Standard (Tray Packing)
R0 = Tape & Reel

CS70 Series Dual DDR3 DIMM Socket

- Insulator: LCP UL 94V-0
- Contact: Copper Alloy
- Power supply: 1.5V

RoHS Compliant



Solder Pad Pattern

Ordering Code

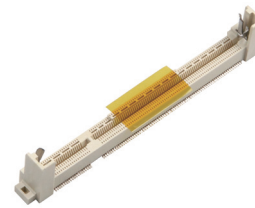
1 2 3 4 5
CS 7 0 4 0 8 2 1 M 0

- 1 Series No.
- 2 No. of Circuits: 408
- 3 Plating Code:
2 = Gold flash over Nickel
- 4 Color: 1 = Black
- 5 Other Options:
M0 = Standard (With Mylar)

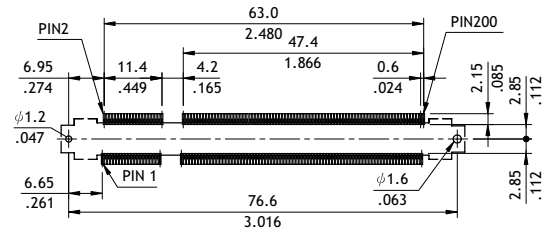
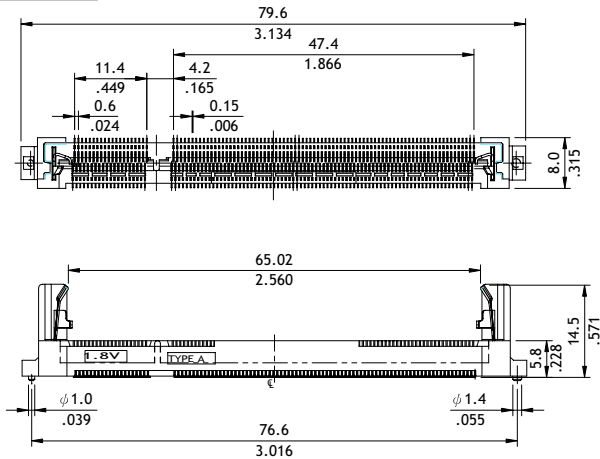
CS70 Series DDR1&DDR2 S.O DIMM Socket Vertical

- Insulator: LCP UL 94V-0
- Contact: Copper Alloy
- Power supply: 1.8V & 2.5V

RoHS Compliant

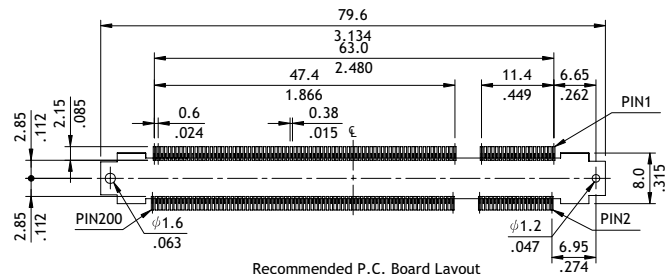
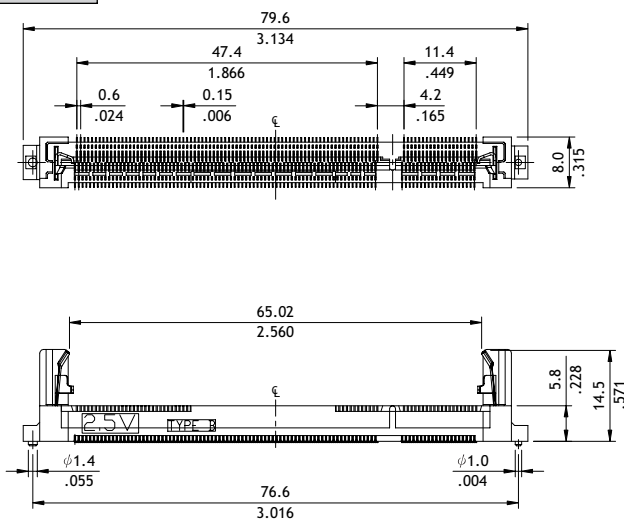


Type A



Recommended P.C. Board Layout

Type B



Recommended P.C. Board Layout

Ordering Code

① CS ② 70 ③ 2 ④ B ⑤ 00

- ① Series No.
- ② No. of Circuits: 200
- ③ Plating Code:
2 = Gold flash over Nickel
- ④ Type: A = A Type
B = B Type
- ⑤ Other Options:
00 = Type 2 (Power supply 1.8V)
10 = Type 1 (Power supply 2.5V)

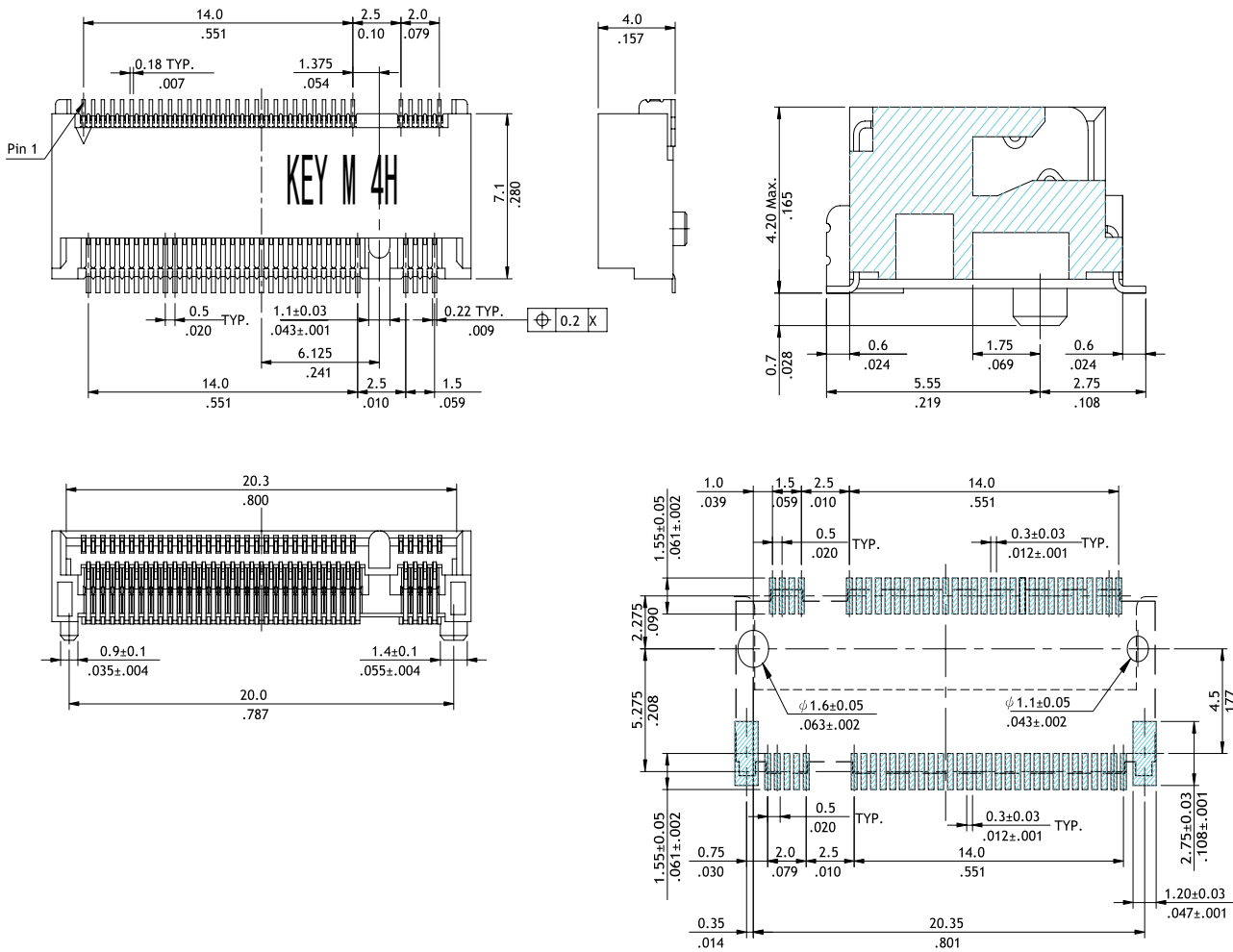
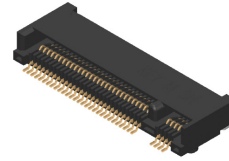
CS76 Series NGFF Connectors

- Housing: High temperature thermo plastic UL 94V-0
- Terminal: Copper Alloy
- Solder Peg: Copper Alloy

RoHS Compliant



NEW



KEY ID "M"

Recommended PC Board Layout

Ordering Code

① CS ② 7 ③ 6 ④ A ⑤ M0 ⑥ R0

- ① Series No.
- ② No. of Circuits: 67
- ③ Plating Code:
2 = Gold flash over Nickel
- ④ Height: A = 4.0mm
- ⑤ Key ID: M0 = M Key
- ⑥ Packing Options:
R0 = Tape & Reel