



PART NO.	DIM A	DIM B	DIM C
609A40X024SX0X1	11.95 Max.	10.00	6.00
609A41X048SX0X1	23.95 Max.	22.00	18.00
609A42X096SX0X1	47.95 Max.	46.00	42.00
609A43X192SX0X1	95.95 Max.	94.00	90.00
609A44X072SX0X1	35.95 Max.	34.00	30.00

SPECIFICATION

MATERIAL
 Insulator: Thermal Plastic, rated UL94V-0
 Contacts: Copper Alloy
CONTACT PLATING
 Underplate: 50u"~100u" Nickel
 Contact Area: 1u"~30u" Selective Gold
 Solder Tails Area: 100u"~200u" Tin/Lead or 100u"~200u" Tin(Lead Free)

ELECTRICAL
 Current rating: 1 Amps max.
 Contact resistance: 50 mohms max.
 Insulation resistance: 1000 Mohms min @ 500 VDC
 Part no.

609A 4X X XXX S X 0 X 1
 1 2 3 4 5 6 7 8 9

1.SERIES NO:
 609A=FUTURE BUS DIP TYPE

- 2.TYPE:**
 40=4 ROW X 6 COLUMN
 41=4 ROW X12 COLUMN
 42=4 ROW X24 COLUMN
 43=4 ROW X48 COLUMN
 44=4 ROW X18 COLUMN

3.ENVIRONMENT PROTECTION MATERIAL.

- J=SONY SS-00259(Reserved)
 K=SONY SS-00259(Matte Tin) (Reserved)
 E=RoHS
 F=RoHS (Matte Tin)

4.CONTACT NUMBER:

- 024,048,096,192,072

5.CONTACT TYPE:

- S=Female (90° VERTICAL TYPE)

6.CONTACT PLATING.

- S=Gold Flash (Selective)
 R=3u" Gold (Selective)
 A=5u" Gold (Selective)
 B=10u" Gold (Selective)
 C=15u" Gold (Selective)
 D=30u" Gold (Selective)

7.PROTECT LAYOUT

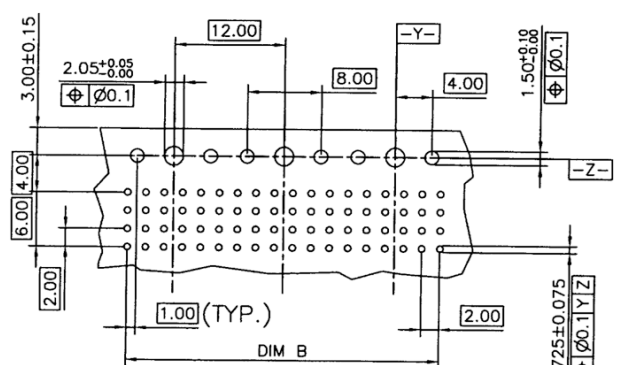
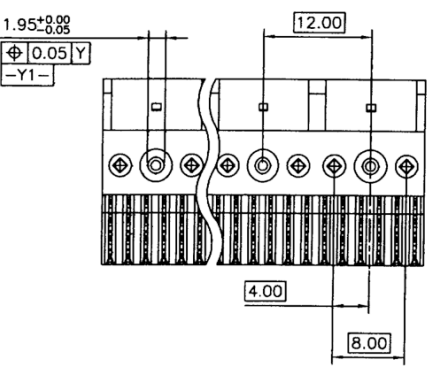
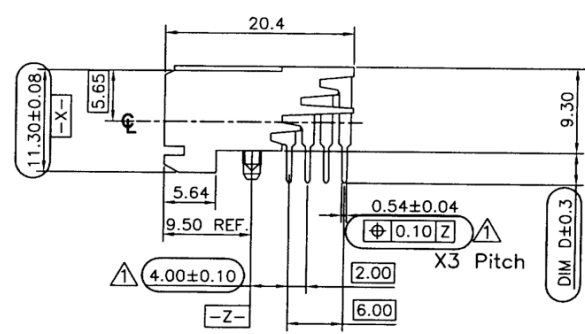
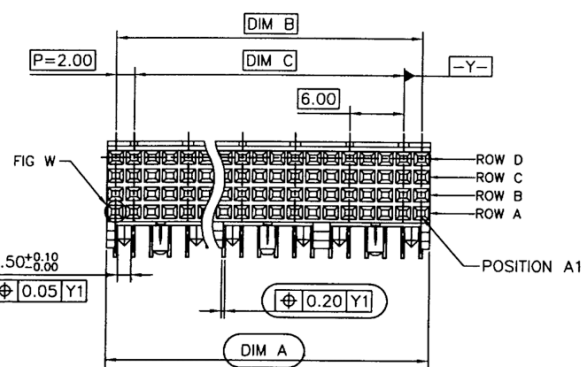
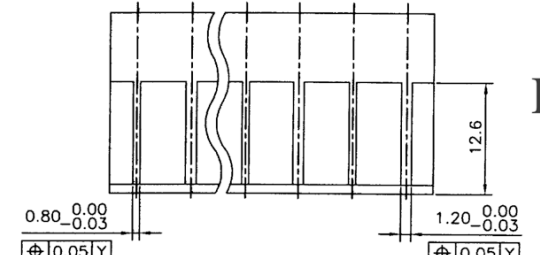
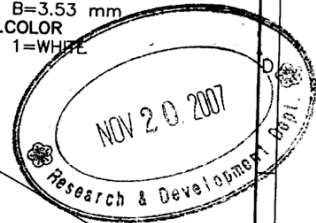
- 0=FULL PIN

8.CONTACT LEAD LENGTH

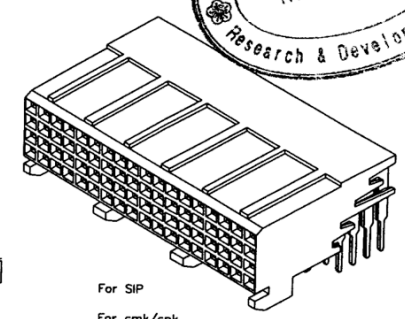
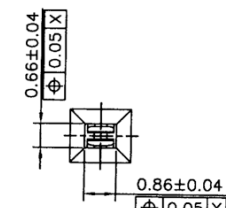
- DIM OF "D"
 A=2.73 mm
 B=3.53 mm

9.COLOR

- 1=WHITE



RECOMMENDED PCB LAYOUT
 TOLERANCES: ±0.05mm



UNLESS OTHERWISE SPECIFIED TOLERANCE	
ANG.	±5°
0.	±0.5
.0	±0.3
.00	±0.2

MC-COMPONENTS

REV.	DESCRIPTION	DATE	REV.	DESCRIPTION	DATE
C	ECN-0612090(James) (5,D)(6,D)	12/20/06			
B	ECN-0610075(James) CHANGE OUTLINE	10/12/06			
A	ECN-0511004(Brian)	11/01/05	D	ECN-0711168(Catherine) (7,G)(9,E)	11/15/07

SCALE:	AS SHOWN	UNIT:	mm
DRAWN	PEARL	DATE	11/16/07
CHECKED	Cherry	DATE	11/19/07
APPROVED	Joe	DATE	11/19/07

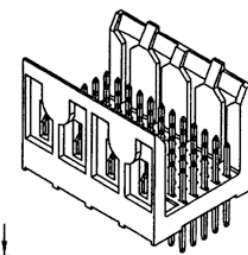
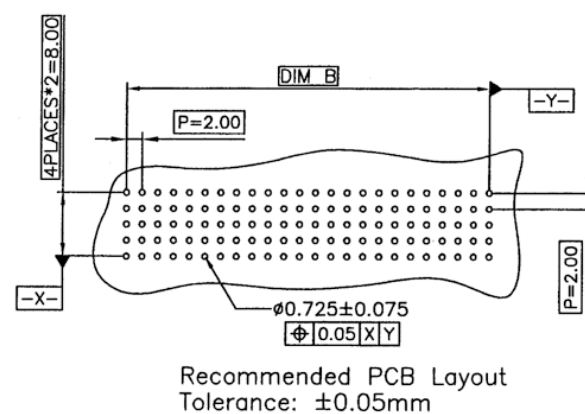
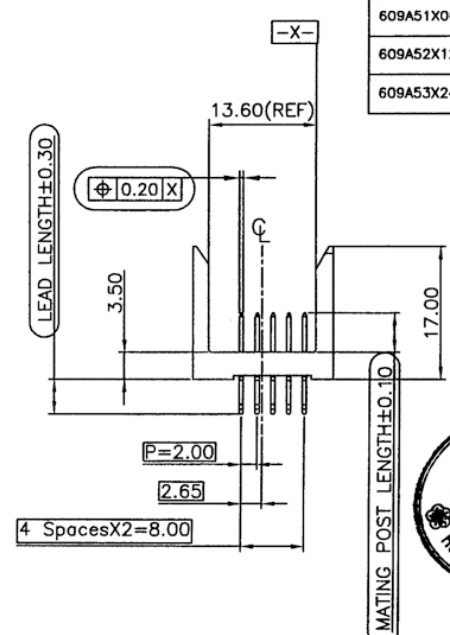
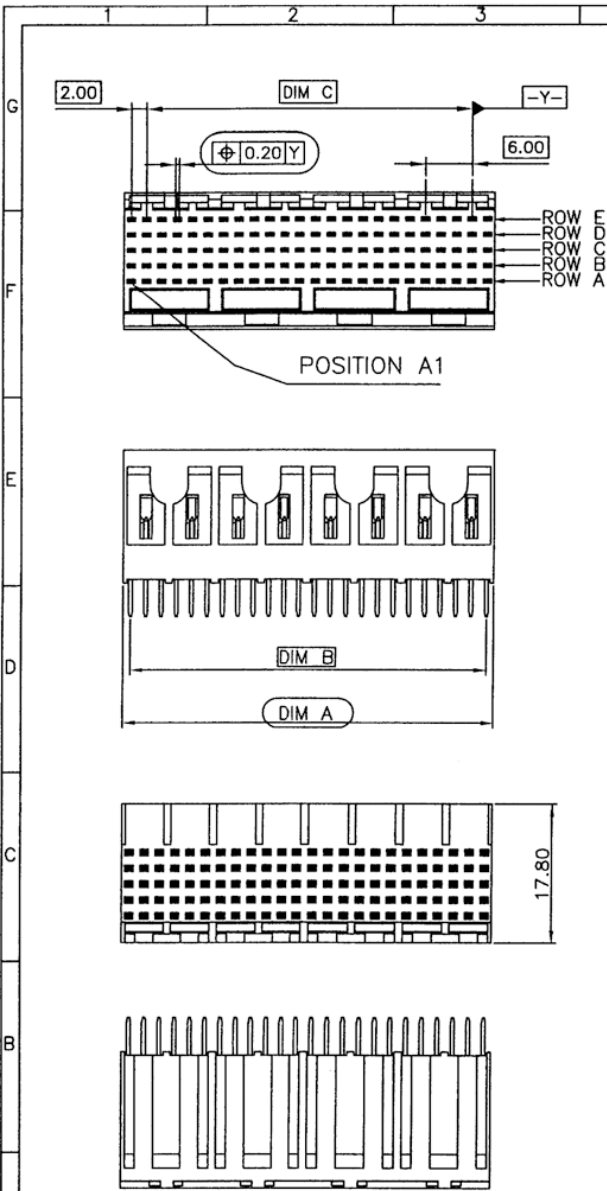
DRAWN NAME:	Future Bus Female 90° DIP
PRODUCT NO.	609A4XKXXXSX0X1
FILE NAME:	609A4XKXXXSX0X1

PART NO.	DIM A	DIM B	DIM C
609A50X030MXXXZ	11.95 Max.	10.00	6.00
609A51X060MXXXZ	23.95 Max.	22.00	18.00
609A52X120MXXXZ	47.95 Max.	46.00	42.00
609A53X240MXXXZ	95.95 Max.	94.00	90.00

SPECIFICATION
MATERIAL
 Insulator: Thermall Plastic UL94V-0
 Contacts: Copper Alloy
CONTACT PLATING
 Underplate: 50u"~100u" Nickel
 Contact Area: 1u"~30u" Selective Gold
 Solder Tails Area: 100u"~200u" Tin/Lead Free
ELECTRICAL
 Current Rating: 1 Amps Max.
 Contact Resistance: 20 mohms Max.
 Insulation Resistance: 1000 Mohms Min
MECHANICAL
 Temperature Range: -55°C To +125°C
 PART NO.

609A 5X X XXX M X X X Z
 1 2 3 4 5 6 7 8 9

- 1. SERIES NO.
609A=Futurebus Solder Type
- 2. TYPE
50=5 Row * 6 Column
51=5 Row * 12 Column
52=5 Row * 24 Column
53=5 Row * 48 Column
- 3. ENVIRONMENT PROTECTION
MATERIAL:
--=General
J=SONY SS-00259(Reserved)
K=SONY SS-00259(Matte Tin) (Reserved)
E=RoHS
F=RoHS(Matte Tin)
- 4. CONTACT NUMBER:
Pin Number
- 5. CONTACT TYPE:
M=Male
- 6. CONTACT AREA PLATING:
S=Gold Flash (Selective)
R=3u" Gold (Selective)
A=5u" Gold (Selective)
B=10u" Gold (Selective)
C=15u" Gold (Selective)
D=30u" Gold (Selective)
- 7. PIN LENGTH(See Page 2)
A=Length All The Same & Full Pins
B~Z=Different Pin Length
- 8. CONTACT LAYOUT NUM.
A~Z
- 9. COLOR:
Z=White Color Insulator Type2



KEY DIMENSION			
CODE	MATING POST LENGTH	LEAD LENGTH	
01	5.00	4.30	
02	5.00	13.60	
03	5.00	17.00	
04	5.75	4.30	
05	5.75	13.60	
06	5.75	17.00	
07	6.50	4.30	
08	6.50	13.60	
09	6.50	17.00	
10	7.25	4.30	
11	7.25	13.60	
12	7.25	17.00	
13	8.00	4.30	
14	8.00	13.60	
15	8.00	17.00	

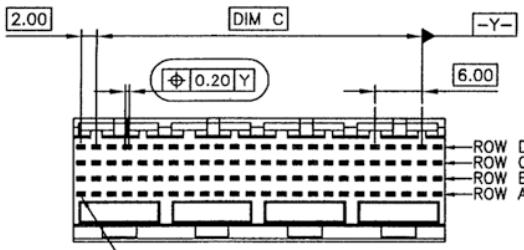
For SIP
 (ST) For smk/epk

UNLESS OTHERWISE SPECIFIED TOLERANCE
 ANG. ±5°
 .0 ±0.5
 .00 ±0.3
 .000 ±0.2
 SCALE: AS SHOWN UNIT: mm

MC-COMPONENTS

A	C	ECN-0610075(James)CHANGE OUTLINE	10/12/06	DRAWN	CHERRY	10/13/06	DRAWN NAME:	FUTURE BUS (SOLDER TYPE)
B		ECN-0601004(Lily)	12/29/05	CHECKED	James	10/16/06		5 Row (MALE)
A		DRA-0411013(Vicky)	11/03/04	APPROVED	Mark	10/16/06	PRODUCT NO.	609A5XXXXMXXXZ
REV.		DESCRIPTION	DATE		SIZE	REV.	FILE NAME:	609A5KXXXXMXXXZ

1 2 3 4 5 6 7 8 9 10

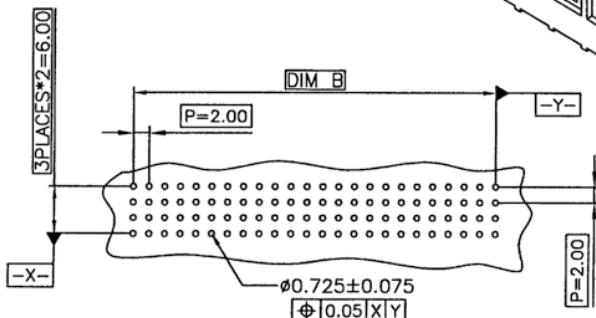
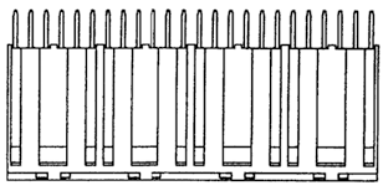
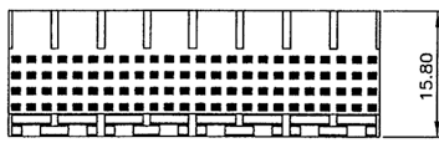
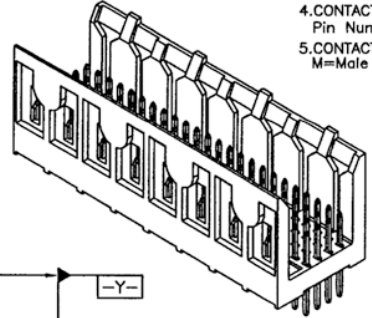
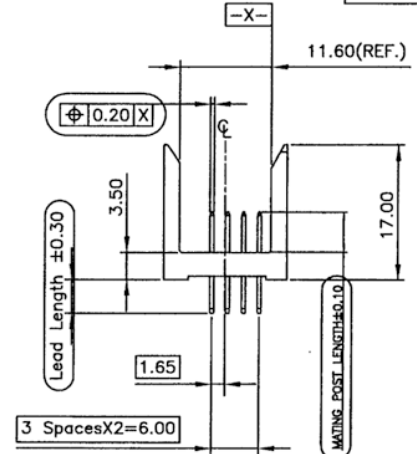
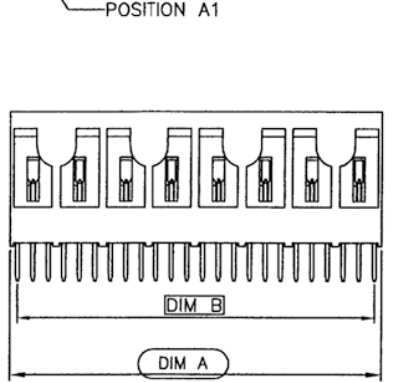


PART NO.	DIM A	DIM B	DIM C
609A40X024MXXXZ	11.95 Max.	10.00	6.00
609A41X048MXXXZ	23.95 Max.	22.00	18.00
609A42X096MXXXZ	47.95 Max.	46.00	42.00
609A43X192MXXXZ	95.95 Max.	94.00	90.00
609A44X072MXXXZ	35.95 Max.	34.00	30.00

SPECIFICATION
MATERIAL
 Insulator: Thermal Plastic UL94V-0
 Contacts: Copper Alloy
CONTACT PLATING
 Underplate: 50u"~100u" Nickel
 Contact Area: 1u"~30u" Selective Gold
 Solder Tails Area: 100u"~200u" Tin/Lead Free
ELECTRICAL
 Current Rating: 1 Amps Max.
 Contact Resistance: 20 mohms Max.
 Insulation Resistance: 1000 Mohms Min
MECHANICAL
 Temperature Range: -55°C To +125°C
 PART NO.

609A 4X X XXX M X X X Z
 1 2 3 4 5 6 7 B 9

- 1. SERIES NO.
609A=Futurebus Solder Type
- 2. TYPE
40=4 Row * 6 Column
41=4 Row * 12 Column
42=4 Row * 24 Column
43=4 Row * 48 Column
44=4 Row * 18 Column
- 3. ENVIRONMENT PROTECTION
MATERIAL:
--General
J=SONY SS-00259(Reserved)
K=SONY SS-00259(Matte Tin) (Reserved)
E=RoHS
F=RoHS(Matte Tin)
- 4. CONTACT NUMBER:
Pin Number
- 5. CONTACT TYPE:
M=Male
- 6. CONTACT AREA PLATING:
S=Gold Flash (Selective)
R=3u" Gold (Selective)
A=5u" Gold (Selective)
B=10u" Gold (Selective)
C=15u" Gold (Selective)
D=30u" Gold (Selective)
- 7. PIN LENGTH(See Page 2)
A=Length All The Same & Full Pins
B~Z=Different Pin Length
- 8. CONTACT LAYOUT NUM.
A~Z
- 9. COLOR:
Z=White Color Insulator Type2



CODE	KEY DIMENSION		
	MATING POST	LENGTH	LEAD LENGTH
01	5.00		4.30
02	5.00		13.60
03	5.00		17.00
04	5.75		4.30
05	5.75		13.60
06	5.75		17.00
07	6.50		4.30
08	6.50		13.60
09	6.50		17.00
10	7.25		4.30
11	7.25		13.60
12	7.25		17.00
13	8.00		4.30
14	8.00		13.60
15	8.00		17.00

For SIP
 For cmk/cpk

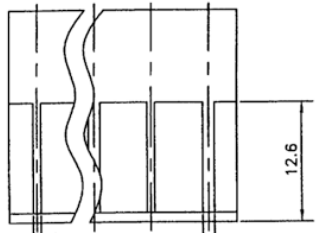
UNLESS OTHERWISE SPECIFIED TOLERANCE:
 ANG.: ±5°
 0. ±0.5
 .0 ±0.3
 .00 ±0.2
 SCALE: AS SHOWN UNIT: mm

MC-COMPONENTS

Recommended PCB Layout Tolerance: ±0.05mm

C	ECN-0610075(James)CHANGE OUTLINE	10/12/06	DRAWN CHERRY	10/13/06	DRAWN NAME: FUTUREBUS SOLDER TYPE
B	ECN-0404075(Joe)	04/16/04	CHECKED Jones	10/16/06	Row(Male)
A	DRA-0403047(Vicky)	03/22/04	APPROVED Jones	10/16/06	PRODUCT NO. 609A4XXXXXMXXXZ
REV.	DESCRIPTION	DATE	SIZE	REV.	FILE NAME: 609A4KXXXXMXXXZ

1 2 3 4 5 6 7 8 9 10



0.80^{+0.00}_{-0.03}
 $\phi 0.05$ Y
 1.20^{+0.00}_{-0.03}
 $\phi 0.05$ Y

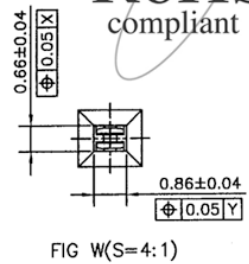
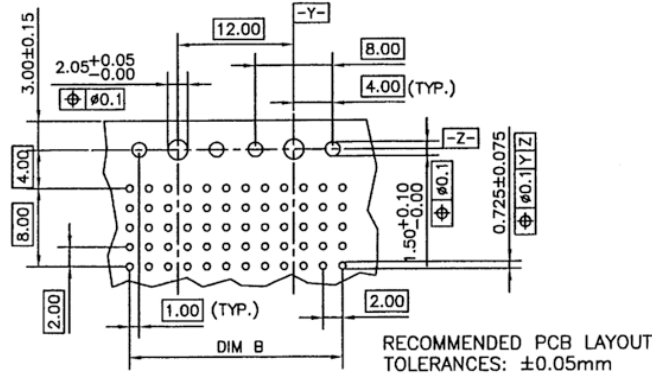
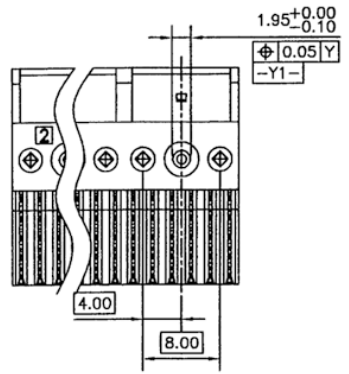
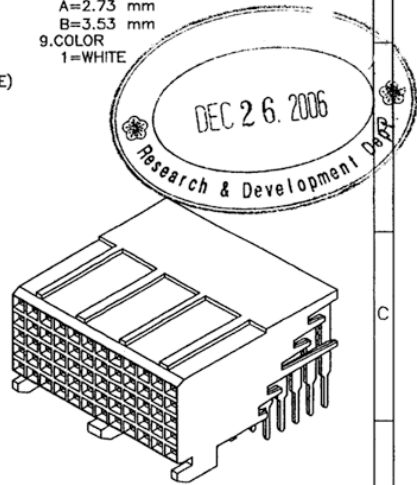
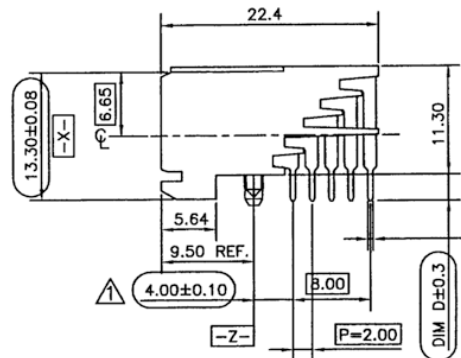
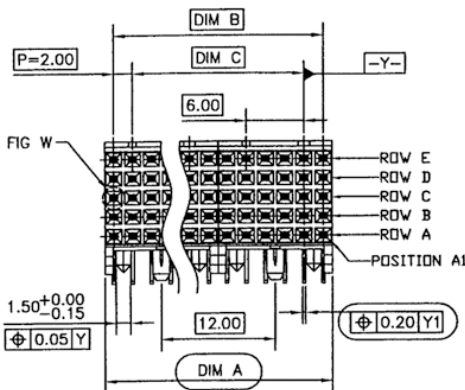
PART NO.	DIM A	DIM B	DIM C
609A50X030SX0X1	11.95 Max.	10.00	6.00
609A51X060SX0X1	23.95 Max.	22.00	18.00
609A52X120SX0X1	47.95 Max.	46.00	42.00
609A53X240SX0X1	95.95 Max.	94.00	90.00

SPECIFICATION
MATERIAL
 Insulator: Thermal Plastic, rated UL94V-0
 Contacts: Copper Alloy
CONTACT PLATING
 Underplate: 50u"~100u" Nickel
 Contact Area: 1u"~30u" Selective Gold
 Solder Tails Area: 100u"~200u" Tin/Lead (Brighten Tin) or 100u"~200u" Tin/Lead Free (Brighten Tin/Matten Tin)

ELECTRICAL
 Current rating: 1 Amps max.
 Contact resistance: 50 mohms max.
 Insulation resistance: 1000 Mohms min @ 500 VDC
 Part no.

609A $\frac{5X}{1}$ $\frac{X}{2}$ $\frac{X}{3}$ $\frac{XXX}{4}$ $\frac{S}{5}$ $\frac{X}{6}$ $\frac{X}{7}$ $\frac{X}{8}$ $\frac{1}{9}$

- 1.SERIES NO:
609A= FUTURE BUS DIP TYPE
- 2.TYPE:
50=5 ROW X 6 COLUMN
51=5 ROW X12 COLUMN
52=5 ROW X24 COLUMN
53=5 ROW X48 COLUMN
- 3.ENVIRONMENT PROTECTION MATERIAL:
J=SONY SS-00259(Reserved)
K=SONY SS-00259(Matte Tin) (Reserved)
E=RoHS
F=RoHS (Matte Tin)
- 4.CONTACT NUMBER:
030,060,120,240
- 5.CONTACT TYPE:
S=Female (90° VERTICAL TYPE)
- 6.CONTACT PLATING:
S=Gold Flash (Selective)
R=3u" Gold (Selective)
A=5u" Gold (Selective)
B=10u" Gold (Selective)
C=15u" Gold (Selective)
D=30u" Gold (Selective)
- 7.CONTACT LAYOUT
O=FULL PIN
A~Z=Jump Pin
- 8.CONTACT LEAD LENGTH
DIM OF "D"
A=2.73 mm
B=3.53 mm
- 9.COLOR
1=WHITE



UNLESS OTHERWISE SPECIFIED TOLERANCE	
ANG.	$\pm 5^\circ$
.0	± 0.5
.0	± 0.3
.00	± 0.2
SCALE: AS SHOWN	UNIT: mm
DRAWN CHERRY	12/20/06
CHECKED James	12/20/06
APPROVED Blank	12/21/06
ϕ SIZE A4	REV. D

MC-COMPONENTS	
DRAWN NAME: FutureBus Connector ,R/A, DIP	
5 Row, Female	
PRODUCT NO.	609A5XXXXSX0X1
FILE NAME:	609A5XKXXXSX0X1

REV. C	ECN-0610075(James)CHANGE OUTLINE	REV. D	ECN-0612090(James) (5,D)(6,D)	DATE	12/20/06
REV. B	ECN-0604165(Chin)				
REV. A	ECN-0511002(Brian)				
REV.	DESCRIPTION	REV.	DESCRIPTION	DATE	