

AVX
A KYOCERA GROUP COMPANY



ELCO Memory Card Connectors

Memory Card Connectors



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Introduction

AVX offers a broad range of Memory Card connectors for removable storage memory applications in hand held data and communications equipment.

PCMCIA

5025 Connectors, SMT, DIP, Zero standoff, 5v, Normal and Reverse, Single and Dual
5025 Ejectors, SMT, DIP, Zero standoff, 5v, Normal and Reverse, Single and Dual
5069 Connectors, Single/Double sided, Zero Standoff, 5v, Reverse
5027 Connectors, SMT, Zero and 2.2mm standoff, 3.3v and 5v, Normal and Reverse
5027 Ejectors, SMT, Zero and 2.2mm standoff, 3.3v and 5v, Normal and Reverse
5027 Cardbus Connectors, SMT, Zero standoff
9170 Type II Frameless Kit, Covers, 68 position connector, 3.3v and 5v and I/O options
9170 Frameless Kit Plug Accessories
Custom I/O Bulge Options

COMPACT FLASH (CF)

5610 Connectors, Type I, Zero and 2mm standoff, Normal and Reverse
5610 Ejectors, Type I, Zero and 2mm standoff, Normal and Reverse
5620 Connectors, Type II, Zero and 2mm standoff, Normal and Reverse
5620 Ejectors, Type II, Zero and 2mm standoff, Normal and Reverse
5611 Connectors, Type I & II, Single/Double sided
5612 Covers With Insulating Tape

MULTIMEDIA CARD (MMC)

5038 Connectors, Non-eject, push eject, and push/push eject options

SECURE DIGITAL (SD)

5638 Connectors, Non-eject, push eject, and push/push eject options

S.O. DIMM

6401 Connectors, SMT RA, 5.5mm profile height
6402 Connectors, SMT, RA, profile height options 4, 5.2 and 5.6mm
6403 Connectors, SMT/DIP, ST, 3.3v and 5v

PCMCIA PC Memory Card Connectors



Features/Benefits

SERIES 5025

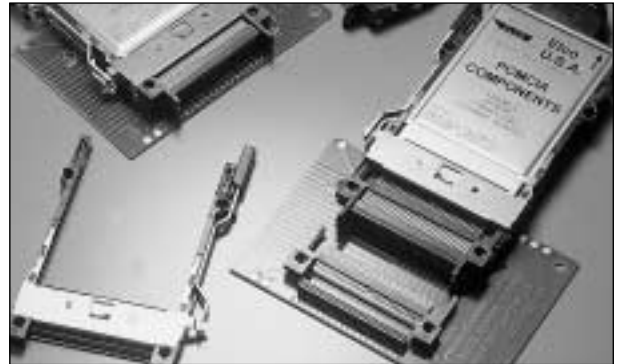
Series 5025 offers single or double stacked header combinations in SMT or Through Hole.

Also, this series meets the requirements of Ver. 4.2/PCMCIA Type I, II and III equipment.

Upper and lower stage of header offers the combination of DIP/SMT and DIP/DIP.

TECHNICAL SPECIFICATIONS

Number of Contacts:	68, 136 (with ESD terminal)
Pitch:	1.27mm (0.05)
Current Rating:	0.5A Max.
Voltage Rating:	5V Max.
DW Voltage:	500V rms/min.
Mating Cycles	10,000



SERIES 5027

This is an SMT lightweight connector for 3.3v or 5v cards.

Height is 5.0mm (0.197), weight is under 10 grams (with single ejector mechanism) which is one of the lightest available in this industry.

Dual type is 2 pcs, side-by-side configuration and you can choose "With Ejector type" or "Without Ejector type".

This meets the requirements of PCMCIA, Type I, II and III.

TECHNICAL SPECIFICATIONS

Number of Contacts:	68, 136
Pitch:	1.27mm (0.05)
Current Rating:	0.5A Max.
Voltage Rating:	5V Max.
DW Voltage:	500V rms/min.
Mating Cycles	10,000



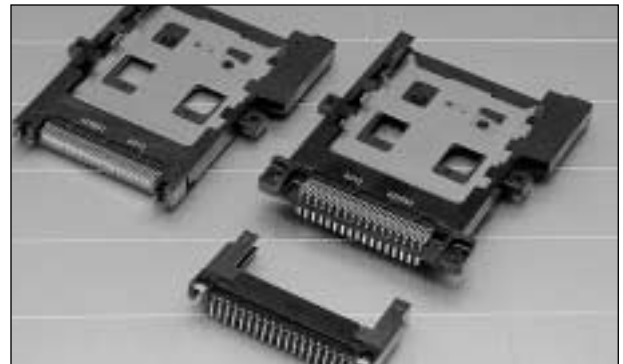
SERIES 5069

1.27mm (0.05) pitch 68 positions plug connector designed for PC card. Contacts on the card side is arranged in two rows and the substrate side has DIP type and SMT type.

Receptacle (card side) connector is also available.

TECHNICAL SPECIFICATIONS

Number of Contacts:	68
Pitch:	1.27mm (0.05)
Current Rating:	0.5A Max.
Voltage Rating:	5V Max.
DW Voltage:	500V rms/min.
Mating Cycles	10,000



SERIES 9170

9170 Series is the PC card connector. It complies with JEIDA/PCMCIA Type II.

Greatest PCB # spacing available in the market allowing design engineer to compact more electronics components onto the PCB board.

Assembly tooling can be supplied to reduce OEM cycle time.

Top/Bottom cover has a unique patented interlocking mechanism, which offers a Robust construction.

Complete I/O connection system is available.

Dedicated I/O connector offered with options of with/without co-axial contacts or Blank I/O.

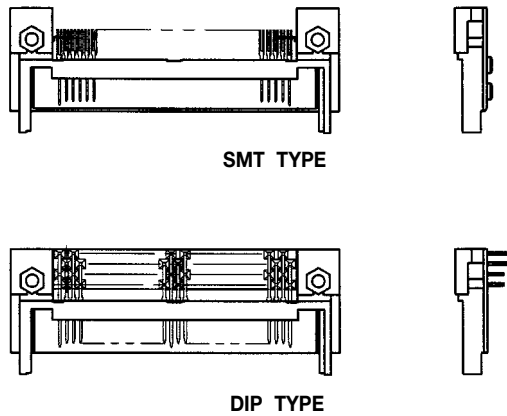


PCMCIA PC Memory Card Connectors

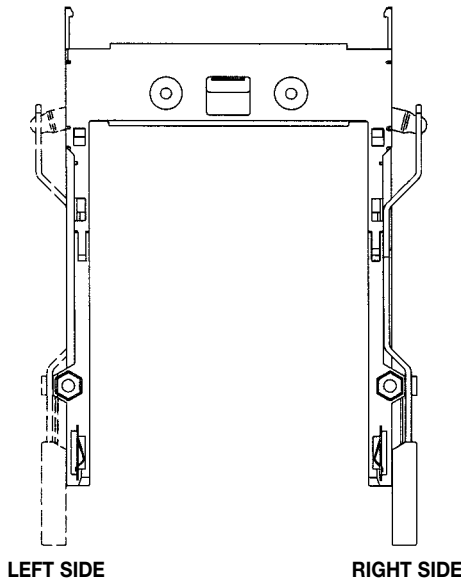


Series 5025 Product Selection Guide

CONNECTOR



EJECTOR



SINGLE SMT

Connector Style			Ejector Style	How To Order		Page
Stand Off	Voltage	Keying	Button Side	Connector	Ejector	
Height=0	5v	Normal	Left	31 5025 068 305 871	30 5025 000 321 000	6, 7
			Right	31 5025 068 305 871	30 5025 000 322 000	
Height=0	5v	Reverse	Left	31 5025 068 355 871	30 5025 000 321 000	6, 7
			Right	31 5025 068 355 871	30 5025 000 322 000	

SINGLE DIP

Connector Style			Ejector Style	How To Order		Page
Stand Off	Voltage	Keying	Button Side	Connector	Ejector	
Height=0	5v	Normal	Left	31 5025 068 100 871	30 5025 000 321 000	8, 9
			Right	31 5025 068 100 871	30 5025 000 322 000	
Height=0	5v	Reverse	Left	31 5025 068 150 871	30 5025 000 321 000	8, 9
			Right	31 5025 068 150 871	30 5025 000 322 000	

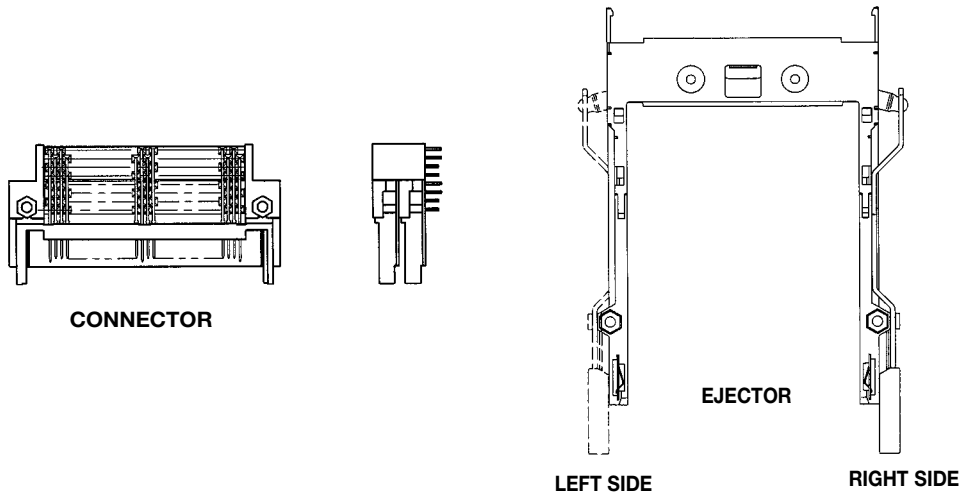
Note – If drawings are required then please contact your local sales office.

PCMCIA PC Memory Card Connectors



Series 5025 Product Selection Guide

SERIES 5025



DUAL DIP/DIP

Connector Style			Ejector Style	Assembly Number	How To Order	Page
Stand Off	Voltage	Keying	Button Side	Connector	Ejector	
Height=0	5v	Normal	Left/Left	31 5025 136 500 871	30 5025 000 621 000	10, 11
			Right/Right	31 5025 136 500 871	30 5025 000 622 000	
			Left/Right	31 5025 136 500 871	30 5025 000 623 000	
			Right/Left	31 5025 136 500 871	30 5025 000 624 000	
Height=0	5v	Reverse	Left/Left	31 5025 136 550 871	30 5025 000 621 000	10, 11
			Right/Right	31 5025 136 550 871	30 5025 000 622 000	
			Left/Right	31 5025 136 550 871	30 5025 000 623 000	
			Right/Left	31 5025 136 550 871	30 5025 000 624 000	

Note – If drawings are required then please contact your local sales office.

Assembly number for connector above comprises of a lower and upper header that needs to be ordered separately. See below on How To Order.

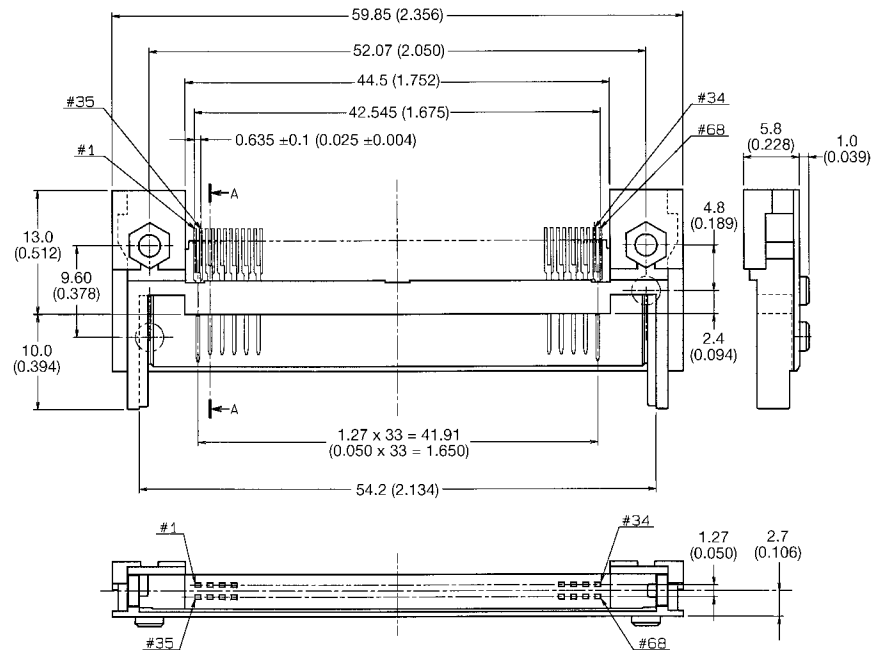
Assembly Number	Header Type	How To Order	Page
31 5025 136 500 871	Upper Header	31 5025 068 200 871	10, 11
	Lower Header	31 5025 068 100 871	
31 5025 136 550 871	Upper Header	31 5025 068 250 871	10, 11
	Lower Header	31 5025 068 150 871	

PCMCIA PC Memory Card Connectors



Series 5025 SMT SINGLE Header/Ejector Assembly

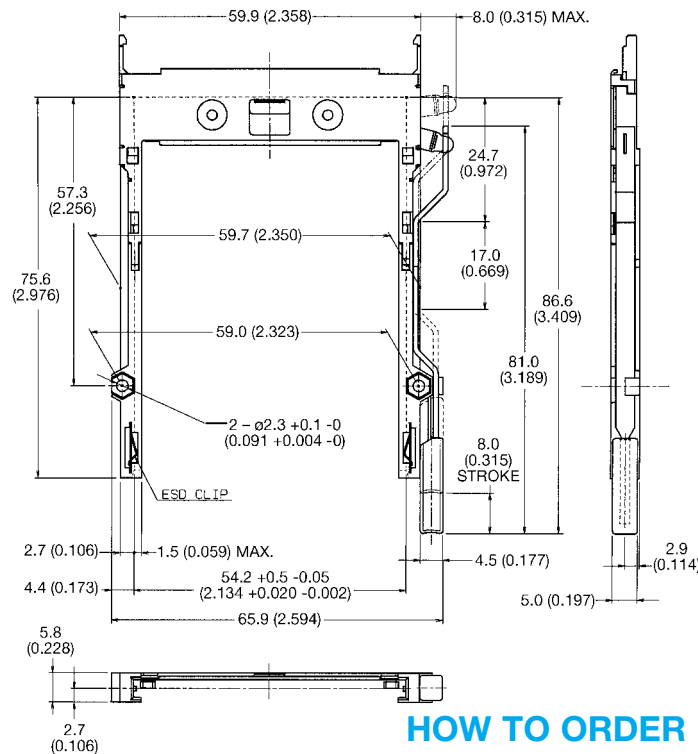
CONNECTOR



HOW TO ORDER

31 5025 068 305 871

EJECTOR



HOW TO ORDER

30 5025 000 322 000

Variation Code
See page 4

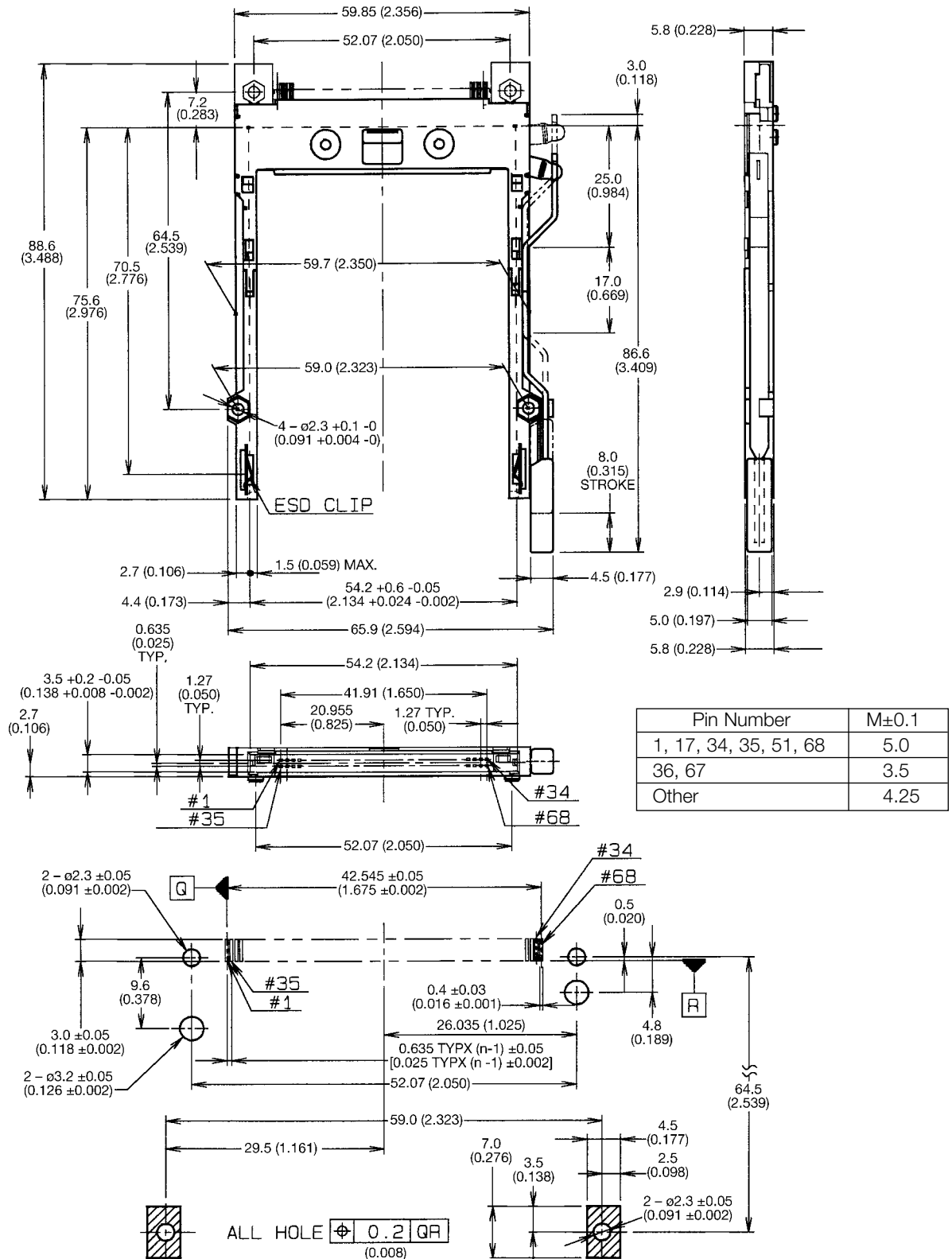
Variation Code
See page 4

PCMCIA PC Memory Card Connectors



Series 5025 SMT SINGLE Header/Ejector Assembly

ASSEMBLY



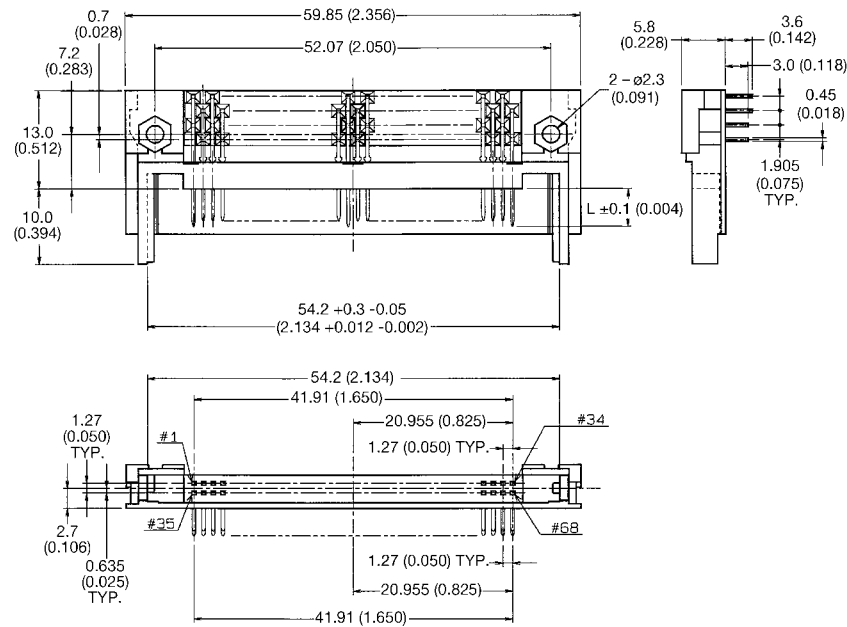
See page 4 for How To Order

PCMCIA PC Memory Card Connectors



Series 5025 DIP SINGLE Header/Ejector Assembly

CONNECTOR

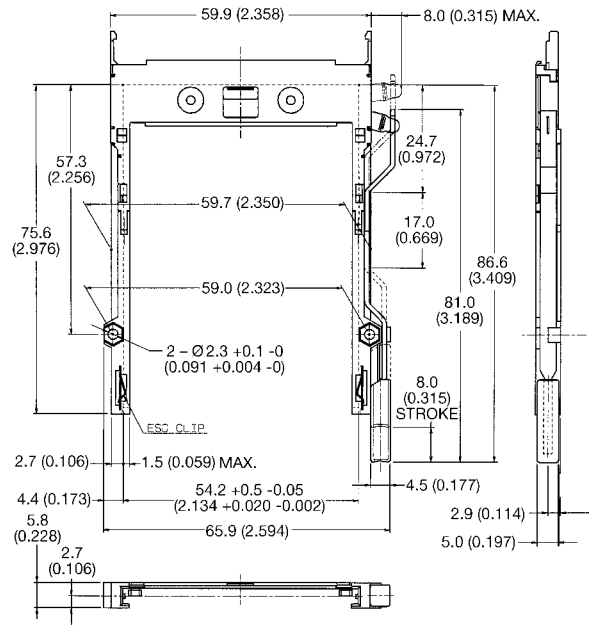


HOW TO ORDER

31 5025 068 100 871

Variation Code
See page 4

EJECTOR

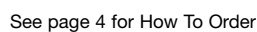


HOW TO ORDER

30 5025 000 322 000

Variation Code
See page 4

ASSEMBLY



PCMCIA PC Memory Card Connectors

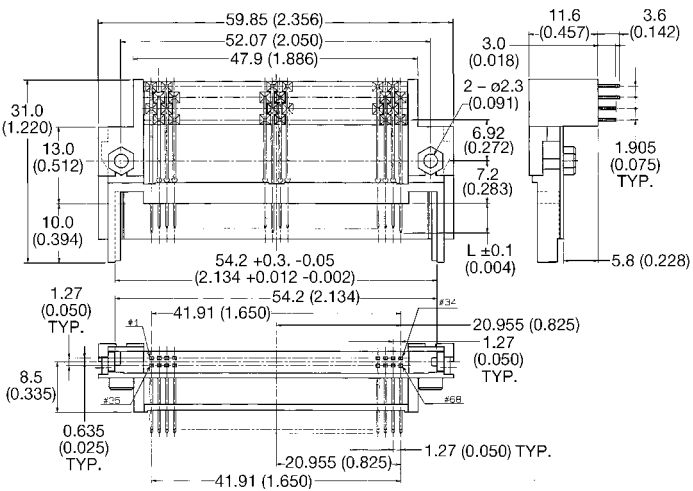
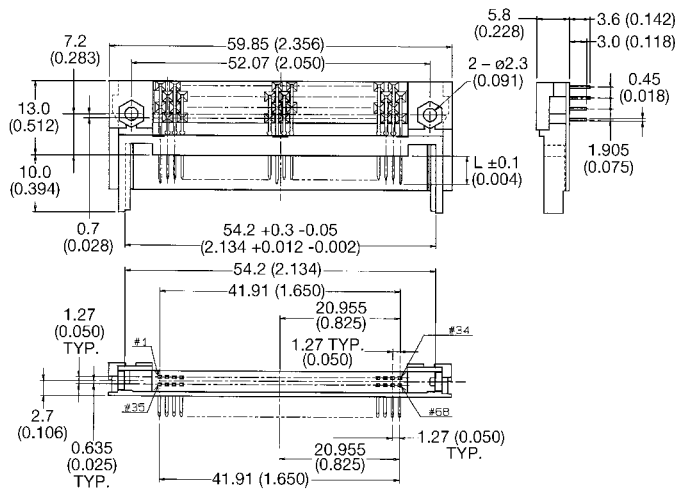
Series 5025 DIP DUAL Header/Ejector Assembly



CONNECTOR

LOWER

UPPER



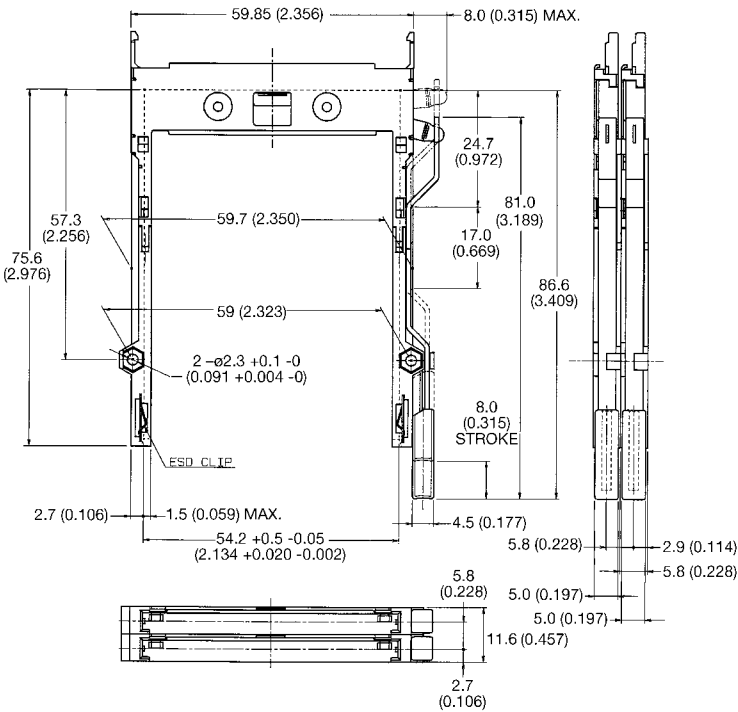
ASSEMBLY NUMBER

31 5025 136 5X0 871

Variation Code

See page 5
500 = Normal
550 = Reverse

EJECTOR

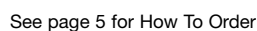


HOW TO ORDER

30 5025 000 622 000

Variation Code
See page 5

ASSEMBLY



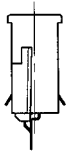
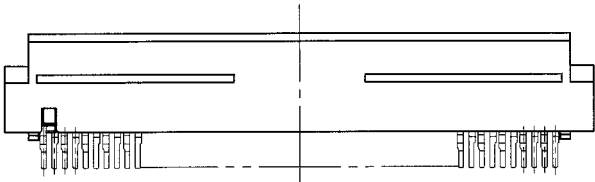
PCMCIA PC Memory Card Connectors



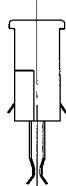
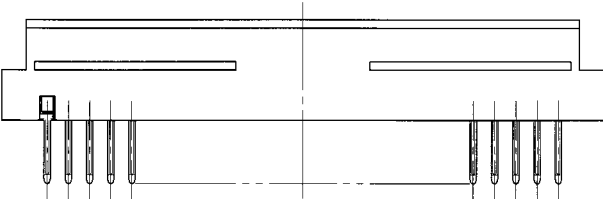
Series 5069 Product Selection Guide

SERIES 5069

SINGLE SIDE



STRADDLE TAIL

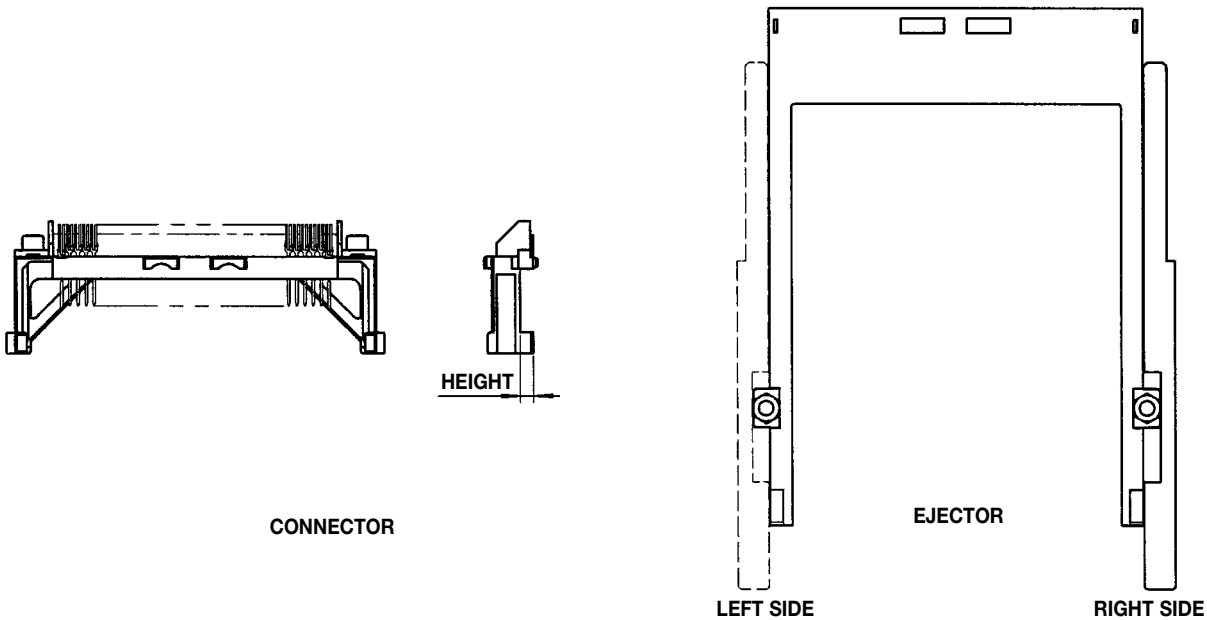


Solder Tail Style	How To Order	Packaging		
		Semi-Hard Tray	70 Tray	840 Box
Straddle Mount	20 5069 068 003 871			
Single Side	24 5069 068 901 835	Tape and Reel	1000 Tape and Reel	

PCMCIA PC Memory Card Connectors



Series 5027 Product Selection Guide



Connector Style			Ejector Style	How To Order		Page
Stand Off	Voltage	Keying	Button Side	Connector	Ejector	
Height=0	5v	Normal	Left	31 5027 068 010 871	30 5027 000 001 000	15, 16
			Right	31 5027 068 010 871	30 5027 000 002 000	
Height=0	5v	Reverse	Left	31 5027 068 020 871	30 5027 000 001 000	
			Right	31 5027 068 020 871	30 5027 000 002 000	
Height=0	3.3v	Normal	Left	31 5027 068 030 871	30 5027 000 001 000	
			Right	31 5027 068 030 871	30 5027 000 002 000	
Height=0	3.3v	Reverse	Left	31 5027 068 040 871	30 5027 000 001 000	17, 18
			Right	31 5027 068 040 871	30 5027 000 002 000	
Height=2.2	5v	Normal	Left	31 5027 068 110 871	30 5027 000 101 000	
			Right	31 5027 068 110 871	30 5027 000 102 000	
Height=2.2	5v	Reverse	Left	31 5027 068 120 871	30 5027 000 101 000	
			Right	31 5027 068 120 871	30 5027 000 102 000	
Height=2.2	3.3v	Normal	Left	31 5027 068 130 871	30 5027 000 101 000	
			Right	31 5027 068 130 871	30 5027 000 102 000	
Height=2.2	3.3v	Reverse	Left	31 5027 068 140 871	30 5027 000 101 000	
			Right	31 5027 068 140 871	30 5027 000 102 000	

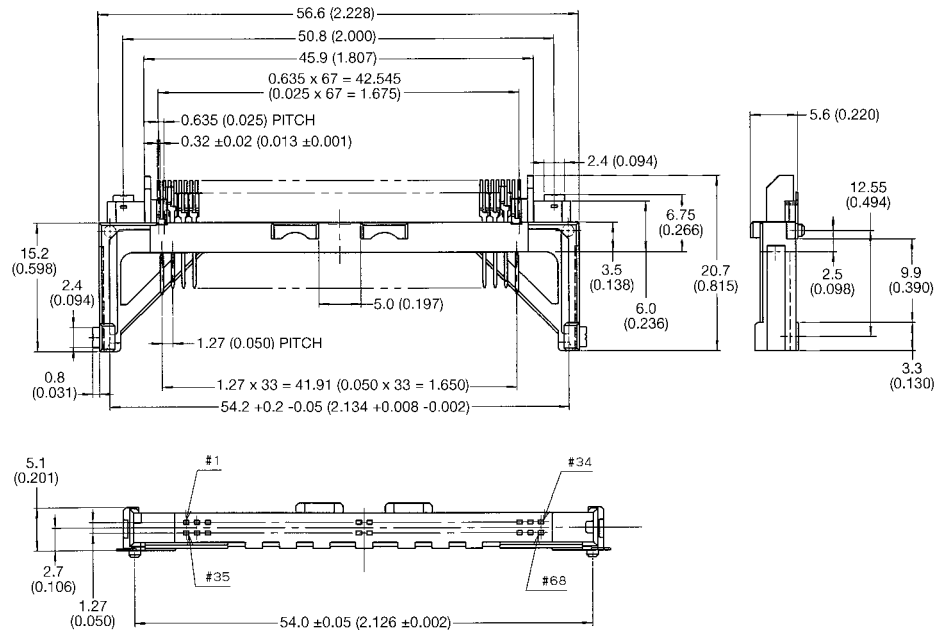
Note – If drawings are required then please contact your local sales office.

PCMCIA PC Memory Card Connectors



Series 5027 Header/Ejector Assembly H=0mm

CONNECTOR

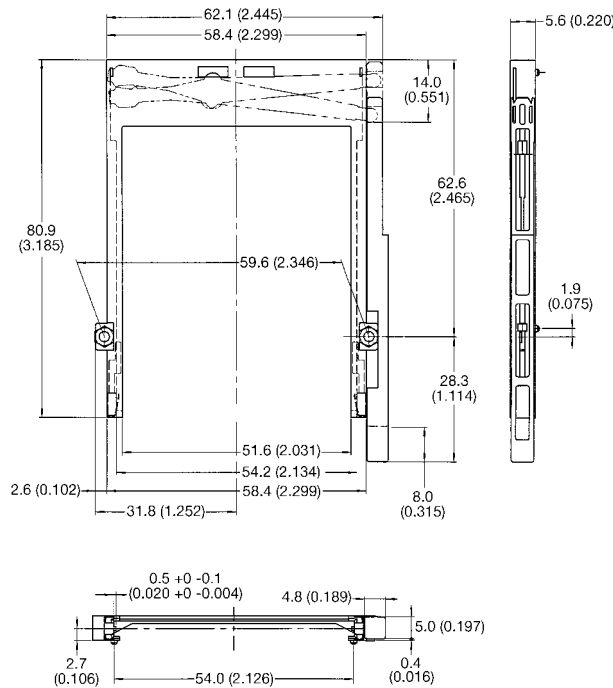


HOW TO ORDER

31 5027 068 010 871

Variation Code
See page 14

EJECTOR

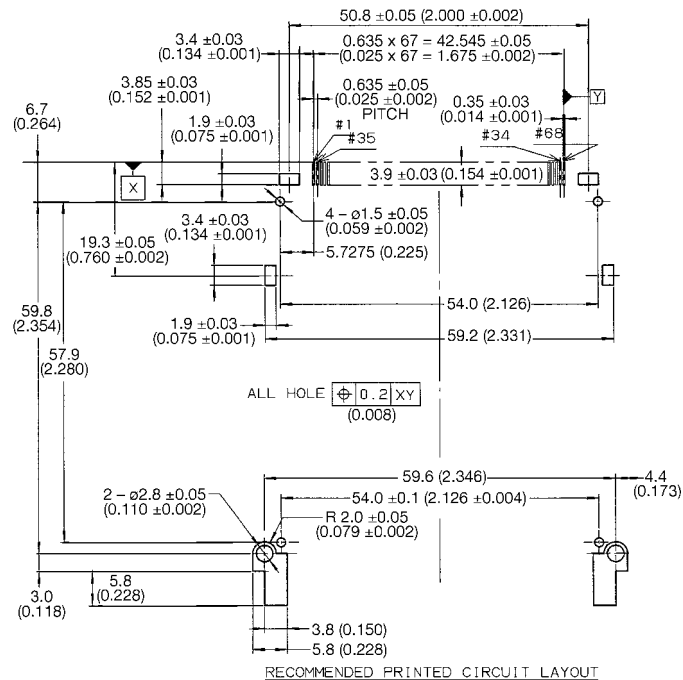


HOW TO ORDER

30 5027 000 002 000

Variation Code
See page 14

ASSEMBLY



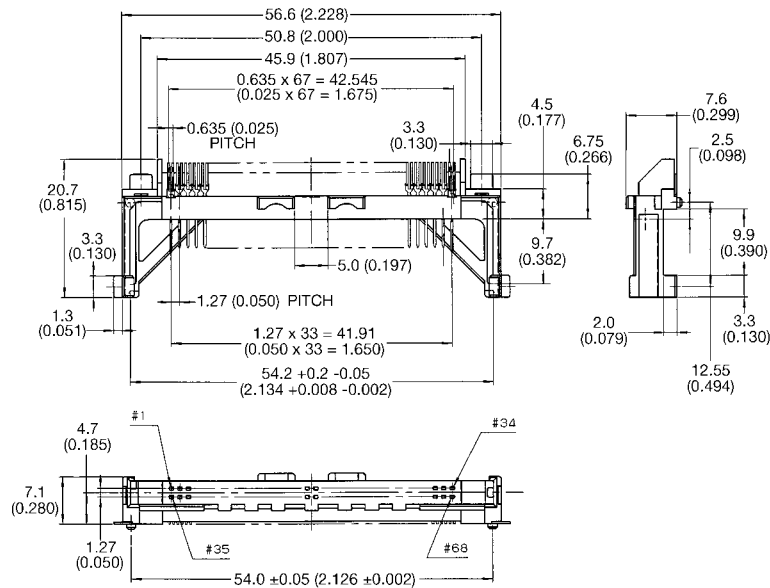
16

PCMCIA PC Memory Card Connectors



Series 5027 Header/Ejector H=2.2mm

CONNECTOR

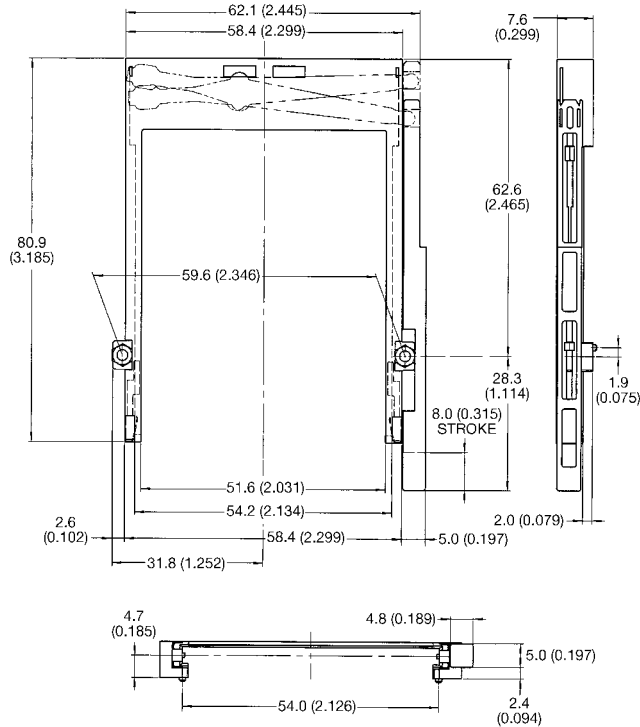


HOW TO ORDER

31 5027 068 110 871

Variation Code
See page 14

EJECTOR



HOW TO ORDER

30 5027 000 101 000

Variation Code
See page 14

ASSEMBLY

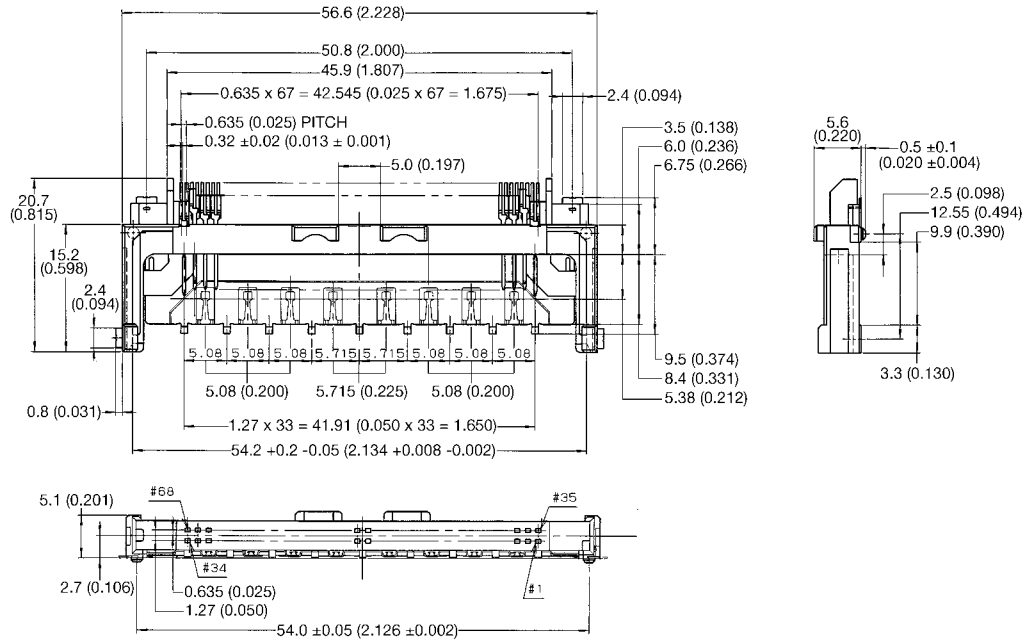


PCMCIA PC Memory Card Connectors



Series 5027 Card Bus SMT Connector Vacuum Cover H=0mm

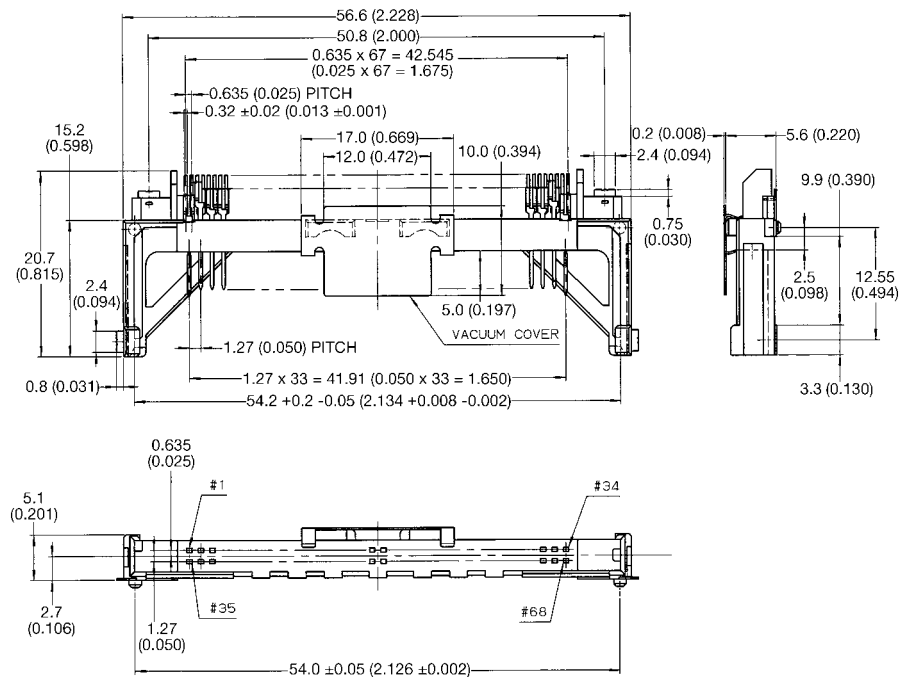
CARD BUS



HOW TO ORDER

31 5027 068 540 871

VACUUM COVER H=0mm



HOW TO ORDER

35 5027 068 030 871

PCMCIA PC Memory Card Connectors



Series 9170 PCMCIA Type II Frameless Card Kit - Features/Benefits

Elco offers card kits including its unique frameless kits for wide ranging applications.

KITS OPTIONS AVAILABLE

- 68 position receptacle
- 68 position card bus receptacle
- Top/Bottom metal covers with and without insulating film
- Extended card, e.g. for WLAN applications
- Customized I/O to suit specific applications
- Dual I/O connector for fax/modem card

APPLICATIONS

- WLAN
- Fax/modem card
- Bluetooth related PC cards
- LAN cards
- Mobile communications

FEATURES AND BENEFITS

- Greatest PCB spacing available in the market* allowing design engineer to compact more electronic components onto the PCB.
- The kit can be modified for specific applications such as WLAN PC card; Bluetooth PC cards, GPRS PC cards, Fax/modem cards as well as PC cards with SIM card reader.
- Top/Bottom metal covers has unique patented interlocking mechanism that offers a robust construction.



- Top/Bottom metal covers offer excellent RF shielding.
- The kit has been tested in accordance with IEEE802.11 WLAN RF emission test.
- All connectors are self supporting to PCB hence do not require support tooling during reflow soldering.
- Reliable pin/socket design offer above industry standard performance.
- Assembly tooling available for mass production.

*Accurate at the time of going to press.

PCMCIA PC Memory Card Connectors

Frameless Card Kit - Product Selection Guide



SELECTION GUIDE BY KITS PART NUMBER

Kit Part Number	68 Position ⁽¹⁾ SSDR - 5.0 Volt 0.40mm Offset	Top Cover ⁽²⁾ Without Insulating Film	Bottom Cover ⁽²⁾ Without Insulating Film	I/O Assembly	I/O Type
30-9170-0001-00-XXX	20-9170-068-001-XXX	80-9170-4000-00-000	80-9170-4100-00-000	22-9170-000-001-XXX	Blank I/O
30-9170-0002-00-XXX	20-9170-068-001-XXX	80-9170-4000-00-000	80-9170-4100-00-000	21-9170-015-001-XXX	15 way, without coax
30-9170-0003-00-XXX	20-9170-068-001-XXX	80-9170-4000-00-000	80-9170-4100-00-000	21-9170-015-002-XXX	15 way with coax
Kit Part Number	68 Position ⁽¹⁾ SSSR - 5.0 Volt 0.40mm Offset	Top Cover ⁽²⁾ Without Insulating Film	Bottom Cover ⁽²⁾ Without Insulating Film	I/O Assembly	I/O Type
30-9170-0001-01-XXX	20-9170-068-004-XXX	80-9170-4000-00-000	80-9170-4100-00-000	22-9170-000-001-XXX	Blank I/O
30-9170-0002-01-XXX	20-9170-068-004-XXX	80-9170-4000-00-000	80-9170-4100-00-000	21-9170-015-001-XXX	15 way, without coax
30-9170-0003-01-XXX	20-9170-068-004-XXX	80-9170-4000-00-000	80-9170-4100-00-000	21-9170-015-002-XXX	15 way with coax
Kit Part Number	68 Position ⁽¹⁾ Card Bus 0.40mm Offset SSSR - 3.3 Volt	Top Cover ⁽²⁾ Without Insulating Film	Bottom Cover ⁽²⁾ Without Insulating Film	I/O Assembly	I/O Type
31-9170-0001-02-XXX	20-9170-068-010-XXX	80-9170-4003-00-000	80-9170-4100-00-000	22-9170-000-001-XXX	Blank I/O
31-9170-0002-02-XXX	20-9170-068-010-XXX	80-9170-4003-00-000	80-9170-4100-00-000	21-9170-015-001-XXX	15 way, without coax
31-9170-0003-02-XXX	20-9170-068-010-XXX	80-9170-4003-00-000	80-9170-4100-00-000	21-9170-015-002-XXX	15 way with coax

XXX = 001 packing in trays
002 packing in tape and reel
003 packing in tubes

Note – 1: Other offsets available, see below/consult sales office.
2: Covers with insulating film available see below.

INTERCONNECTION ASSEMBLY (MATING PLUG TO THE 21-9170 I/O CONNECTOR)

15 way without coax	10 9170 015 001 00X
15 way with coax	10 9170 015 002 00X

Grommet Options:
00X: 7=3.5mm (0.138) Diameter
8=5.0mm (0.197) Diameter

FRAMELESS KIT GUIDE BY OPTIONAL COMPONENTS

68 Position Standard Connector - 5.0 Volt			
Part No.	Tail	Offset	Page
20-9170-068-001-XXX	SSDR	0.40mm	22
20-9170-068-004-XXX	SSSR	0.40mm	
20-9170-068-009-XXX	SSSR	0.00mm	
68 Position Card Bus Connector - 3.3 Volt			
20-9170-068-010-XXX	SSSR	0.40mm	23

COVERS		
Without Insulating Film		
Part No.	Type	Page
80-9170-4000-00-000	Top	24
80-9170-4100-00-000	Bottom	
With Insulating Film		
80-9170-4000-01-000	Top	24
80-9170-4100-01-000	Bottom	

Assembly Tooling		
Part No.		Page
06-9170-7010-00-000		29
PCB Board Layout		30
Cross Section Views		31

I/O Connectors		
Part No.	Type	Page
21-9170-015-001-XXX	15 way without co-axial	25
21-9170-015-002-XXX	15 way with co-axial	
22-9170-000-001-XXX	Blank I/O	26
I/O for Fax/Modem Application		
Part No.	Slots	Page
22-9170-004-000-004	*4 way	26
22-9170-007-000-004	*7 way	
22-9170-015-000-004	*15 way	
22-9170-004-007-004	*4 + 7 way	
22-9170-004-015-004	*4 + 15 way	

*Actual connector supplied as optional extra

Extended Card	
See page 27	

15 Way Mating Plug for Series 21-9170		
Part No.	Type	Page
10-9170-015-001-00X	15 way without co-axial	28
10-9170-015-002-00X	15 way with co-axial	

Grommet Options:
00X: 007=3.5mm (0.138) Diameter
008=5.0mm (0.197) Diameter

PACKAGING OPTIONS

XXX = 001 = Tray - 576
002 = T/R - 576
003 = Tube - 144

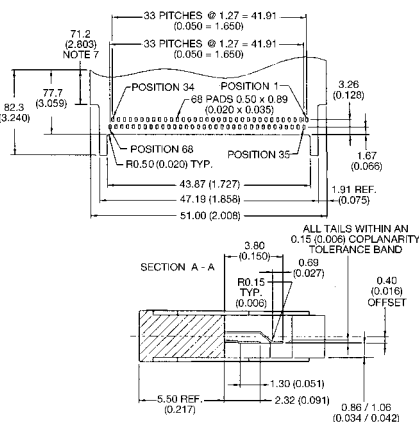
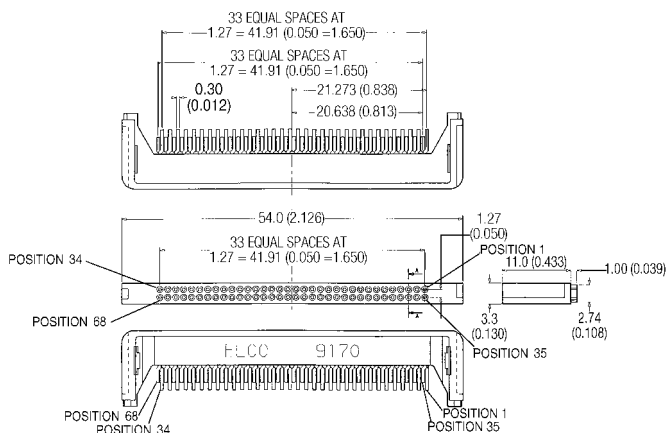
FEATURES

- Design to fit Frameless Kit Cover Type II
- Connector held in card by cover location clip
- High temperature materials meet solder reflow requirements
- Palladium nickel plating provides maximum contact wear

- Incorporates 5v keying features
- 3.3v keying features can be offered

HOW TO ORDER

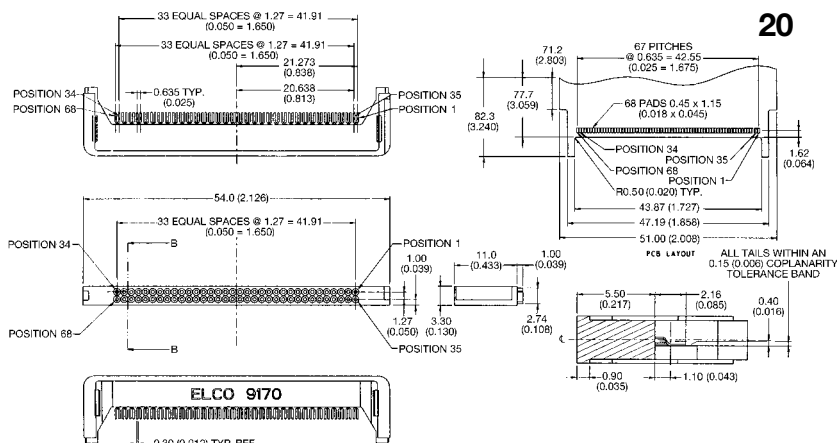
20 9170 068 001 XXX



001=Tray - 576
002=Tape & Reel - 576
003=Tube - 144

HOW TO ORDER

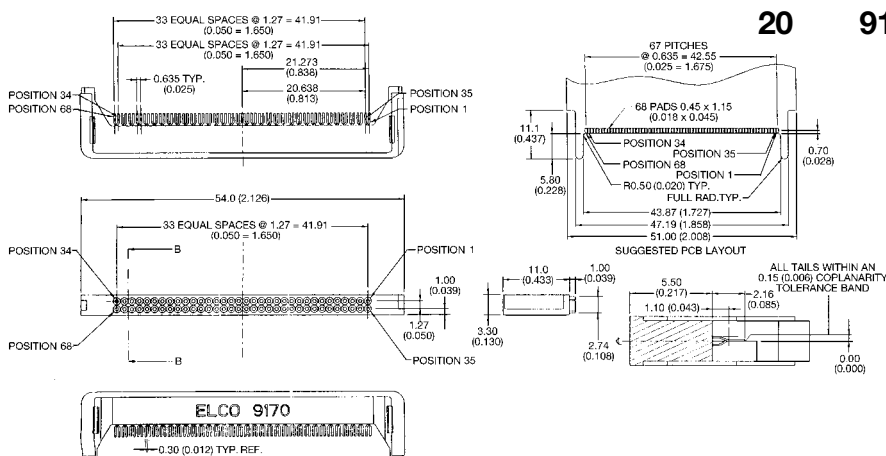
20 9170 068 004 XXX



001=Tray - 576
002=Tape & Reel - 576
003=Tube - 144

HOW TO ORDER

20 9170 068 009 XXX



001=Tray - 576
002=Tape & Reel - 576
003=Tube - 144

PCMCIA PC Memory Card Connectors



Series 9170 PCMCIA Type II Frameless Card Kit 68 Position Card Bus

FEATURES

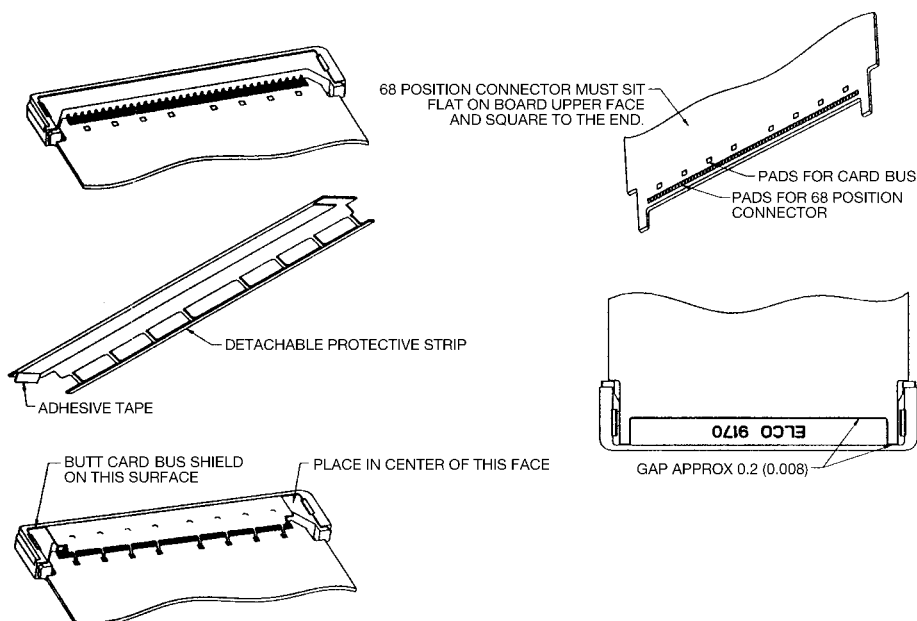
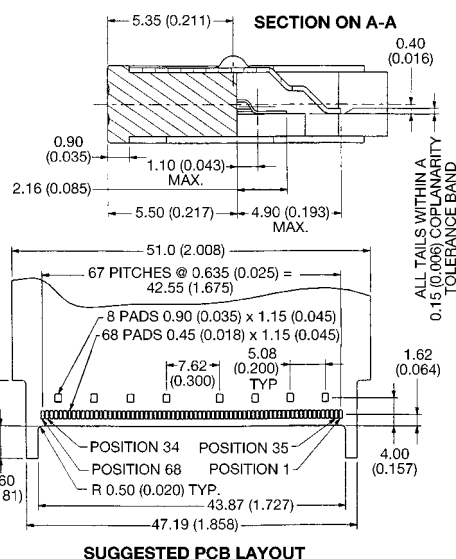
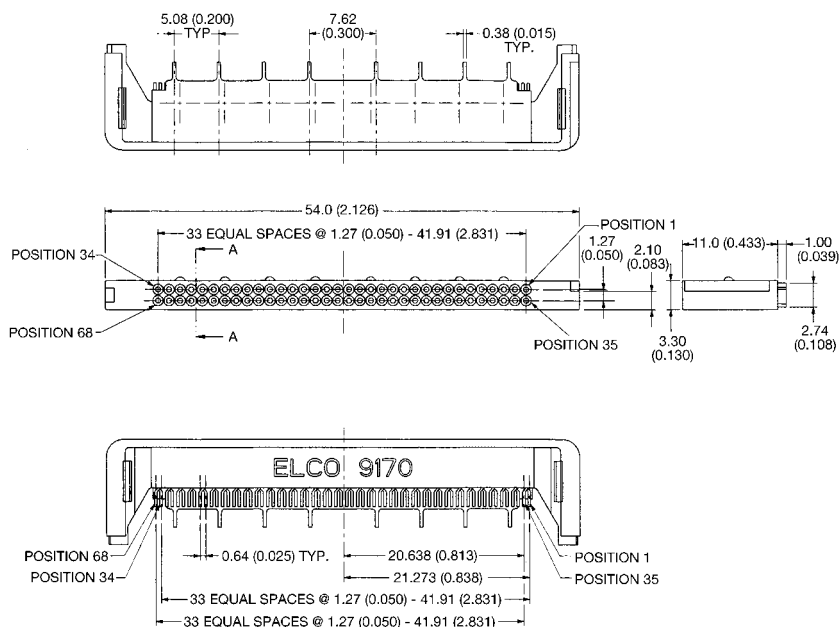
- Metal shield supplied as a separate item

68 POSITION CARD BUS CONNECTOR SSSR 0.40mm Offset 3.3 Volt

HOW TO ORDER

20 9170 068 010 XXX

001=Tray - 576
002=Tape & Reel - 576
003=Tube - 144



PCMCIA PC Memory Card Connectors

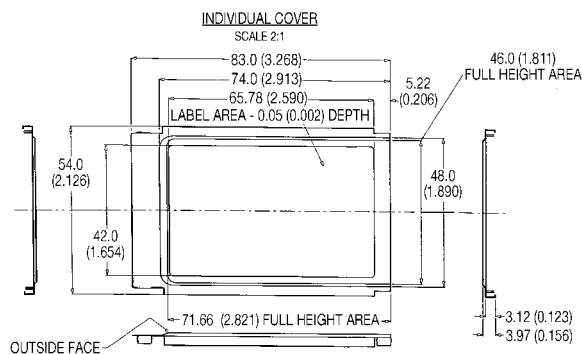


Series 9170 PCMCIA Type II Frameless Card Kit Covers

FEATURES

- Covers interlock with 68 Way receptacle and I/O connector
- Unique interlocking mechanism that offers robust construction
- Covers offer excellent RF shielding and have been tested to IEEE802.11 WLAN RF emissions standard
- Covers come with label recess
- Covers can be customized for SIM card reader
- Covers can be supplied with insulating film to prevent short circuits

COVER

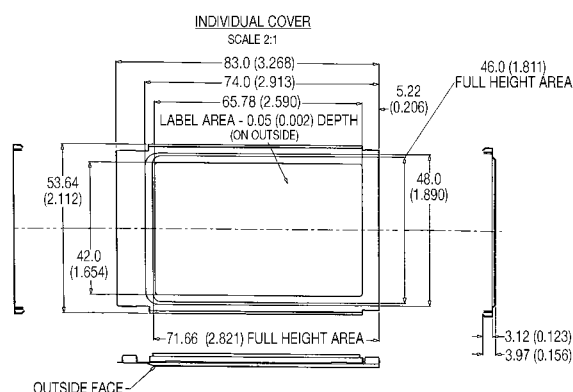


HOW TO ORDER

Top Cover without Insulating Film

80 9170 4000 00 000

Package: Tray - 144



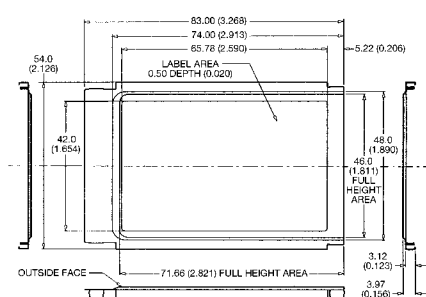
HOW TO ORDER

Bottom Cover without Insulating Film

80 9170 4100 00 000

Package: Tray - 144

COVER

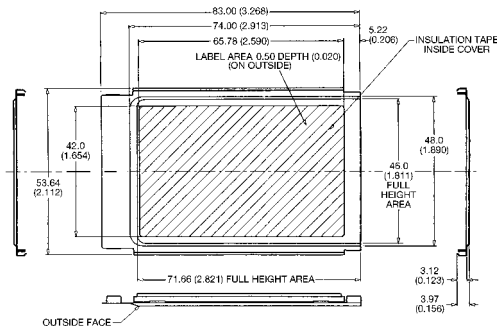


HOW TO ORDER

Top Cover with Insulating Film

80 9170 4000 01 000

Package: Tray - 144



HOW TO ORDER

Bottom Cover with Insulating Film

80 9170 4100 01 000

Package: Tray - 144

PCMCIA PC Memory Card Connectors

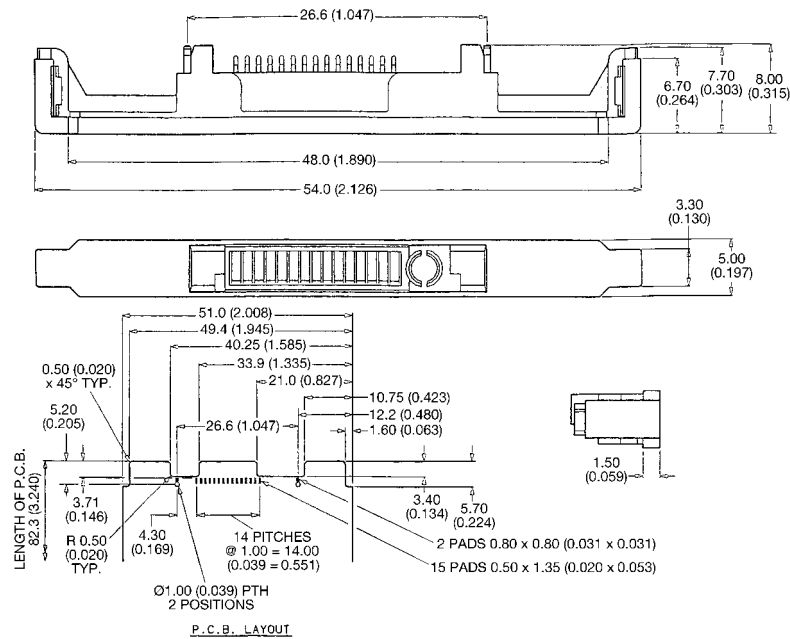


Series 9170 PCMCIA Type II Frameless Card Kit I/O Connector

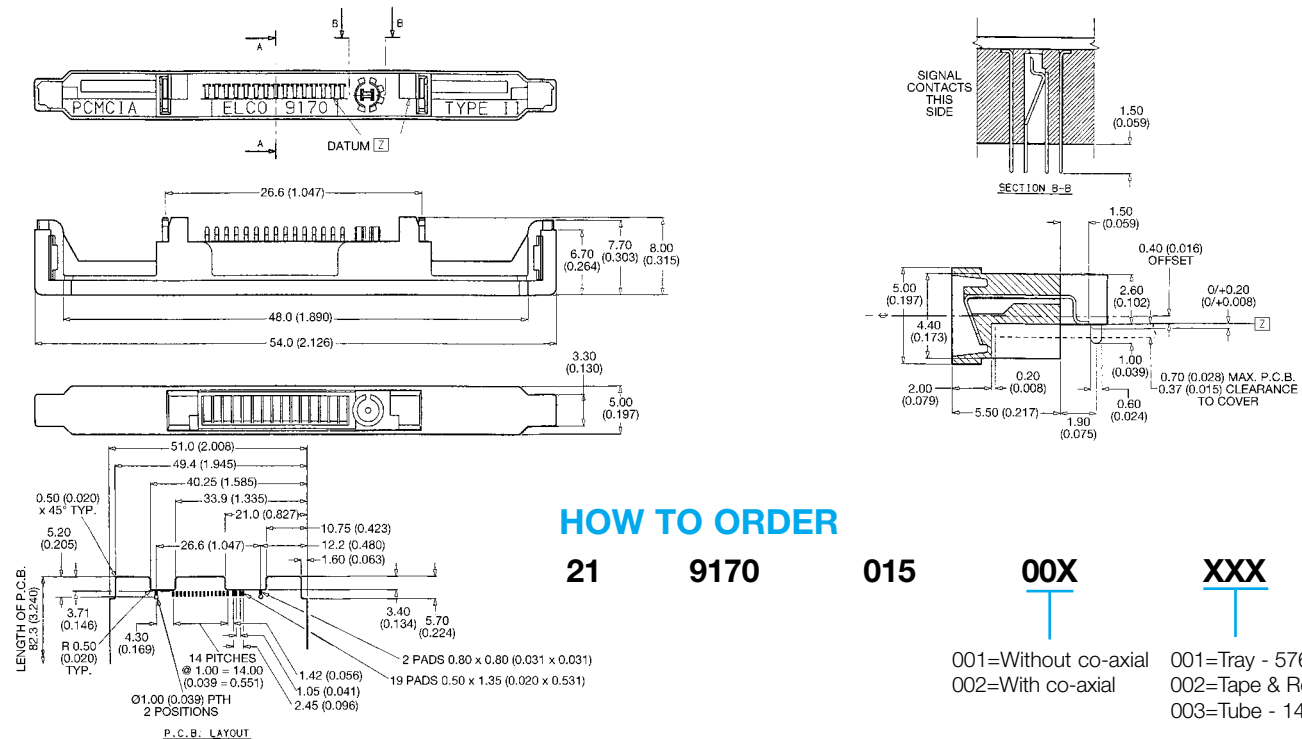
FEATURES

- Elco can offer its unique self-cleaning contact technology
- Recess provided for latching mechanism
- Keying is incorporated to prevent incorrect insertion
- Surface mount technology used for easy pick and place assembly
- Can be pre-assembled to PCB board before reflow
- Optional flexibility offered with switching co-axial and without co-axial

STANDARD I/O CONNECTOR WITHOUT CO-AXIAL



STANDARD I/O CONNECTOR WITH CO-AXIAL



HOW TO ORDER

21

9170

015

00X

XXX

001=Without co-axial
002=With co-axial

001=Tray - 576
002=Tape & Reel - 576
003=Tube - 144

PCMCIA PC Memory Card Connectors



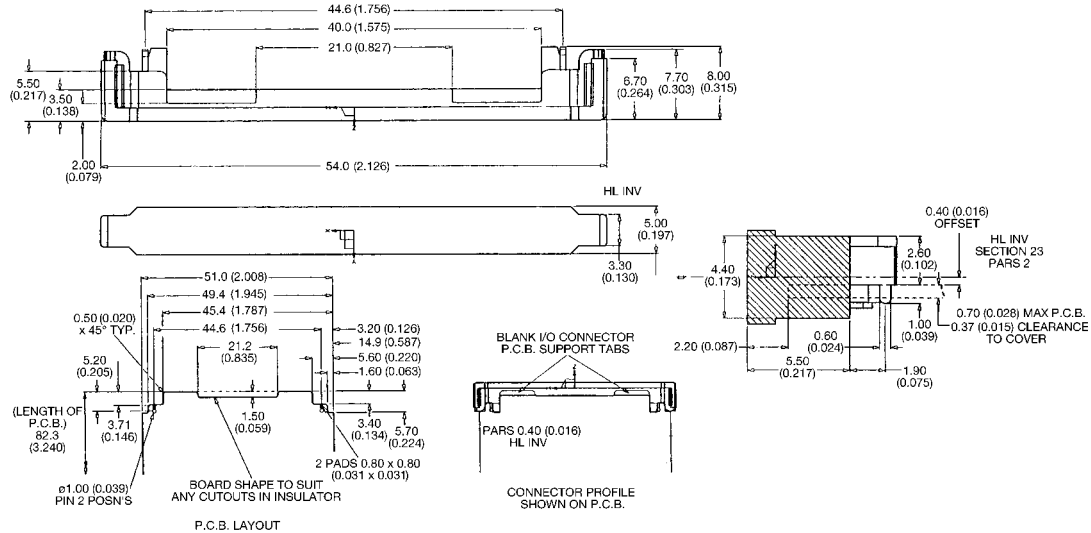
Series 9170 PCMCIA Type II Frameless Card Kit Dual I/O Concepts and Blank I/O

FEATURES

- For Fax/modem concepts i.e., 4, 7 and 15 Way connectors can be mounted onto Blank I/O moldings
- Customers existing 4, 7 or 15 Way connector can be mounted onto Elco I/O moldings; this would ensure that mating cable assemblies do not have to be changed

Please consult factory for further details.

BLANK I/O CONNECTOR

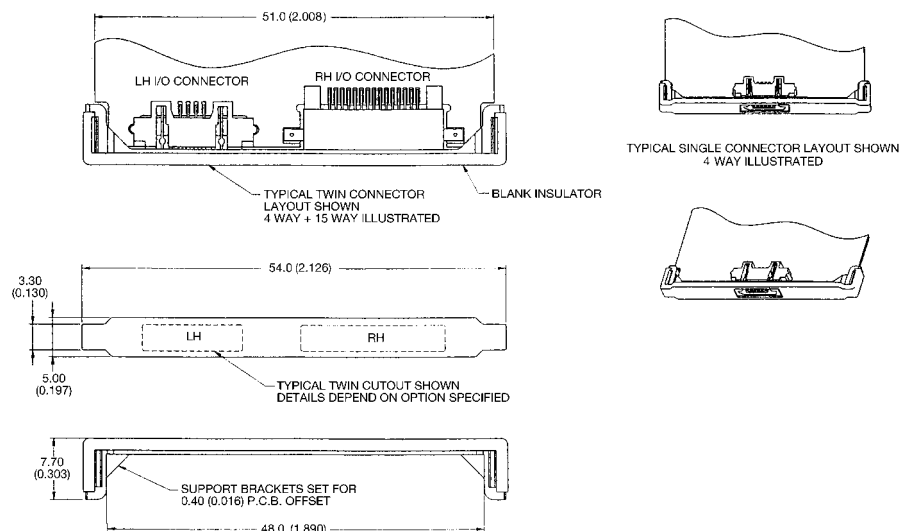


HOW TO ORDER

22 9170 000 001 XXX

001=Tray - 576
002=Tape & Reel - 576
003=Tube - 144

DUAL I/O CONCEPTS



PCMCIA PC Memory Card Connectors

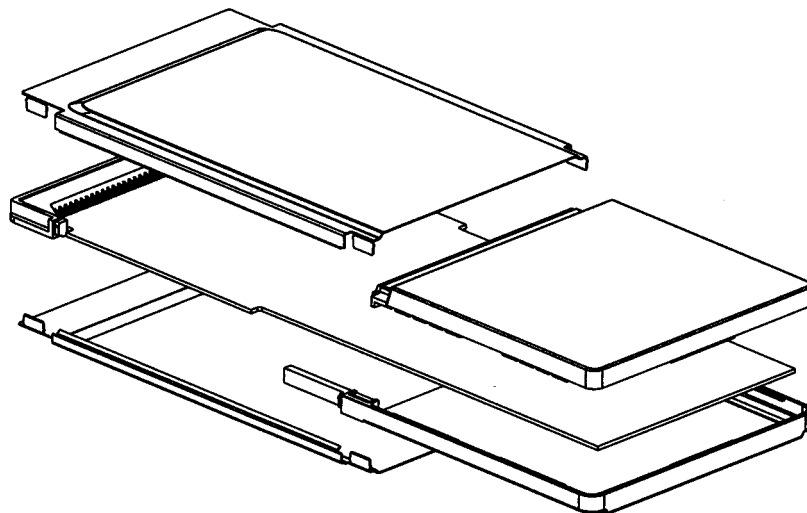
Series 9170 PCMCIA Type II Frameless Card Kit Extended Card



FEATURES

- The extended plastic bulge can be customized to suit specific applications such as: WLAN, Bluetooth or GPRS PC cards.
- The concepts can also be modified so that the design engineer can incorporate SIM card or MMC connector into the PC card.
- Elco frameless kit has been tested and approved by IEEE802.11 standard by Elco end customers.
- Several other components such as antennas, LED's, light pipes and I/O connectors can be integrated into the extension in order to meet specific customer needs.

Please consult factory for additional information.



Example: Exploded View

PCMCIA PC Memory Card Connectors

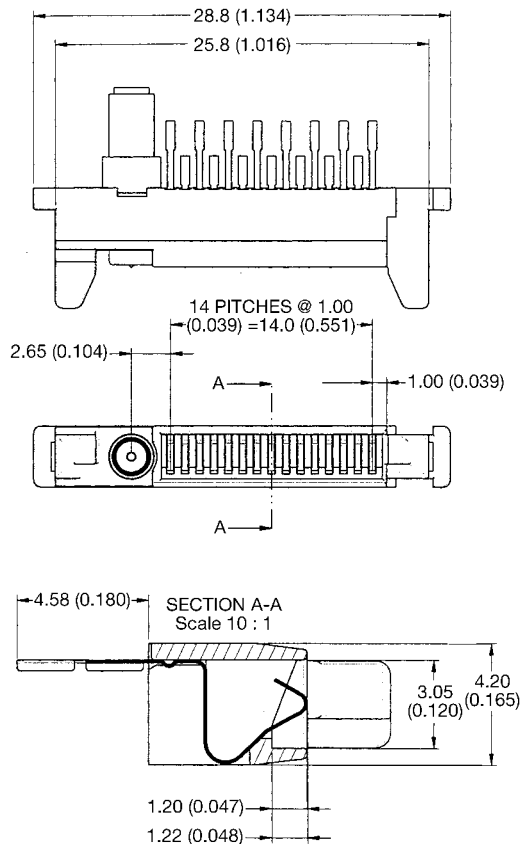


Series 9170 PCMCIA Type II Frameless Card Kit Mating I/O Plug

FEATURES

- Latched plug/cover assembly to I/O socket in memory card
- Options to offer shield continuity
- 15 Way without co-axial
- 15 Way with co-axial

MATING I/O PLUG



HOW TO ORDER

10

9170

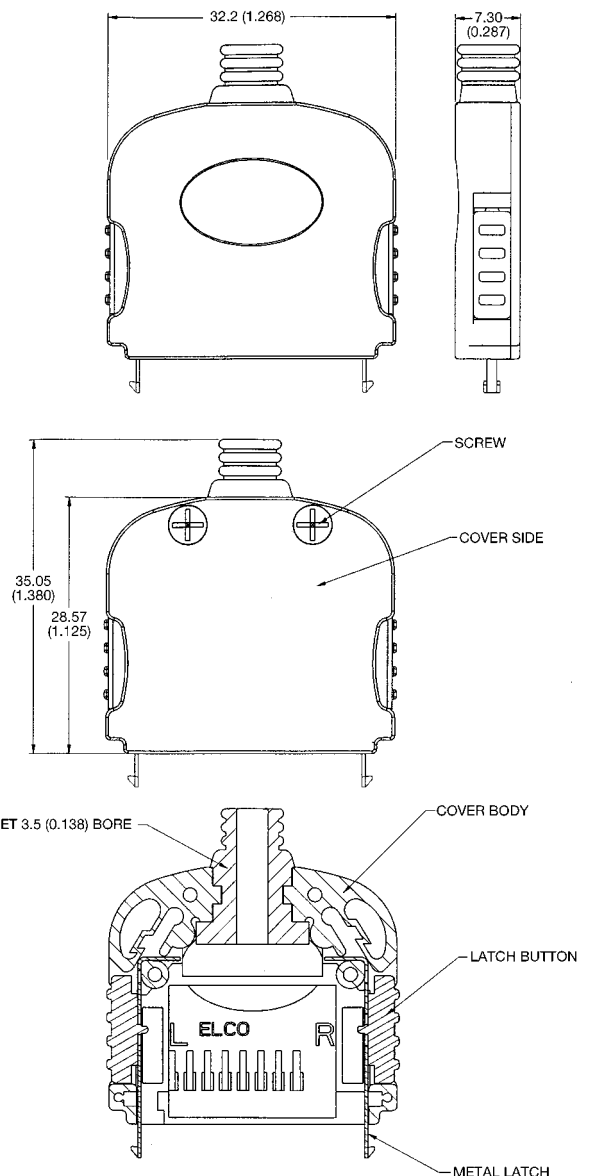
015

00X

00X

001=Without co-axial
002=With co-axial

007=3.5mm
008=5.0mm



PCMCIA PC Memory Card Connectors



Series 9170 PCMCIA Type II Frameless Card Kit Assembly Tooling

FEATURES

- Semi-Automatic Tooling
- User friendly - no special operator skills required
- Tooling can be modified for Elco extended card solutions

HOW TO ORDER

06 9170 7010 00 000

PRODUCTION TOOLING FOR FRAMELESS KIT 9170 SERIES

This is Semi-Automatic Tooling

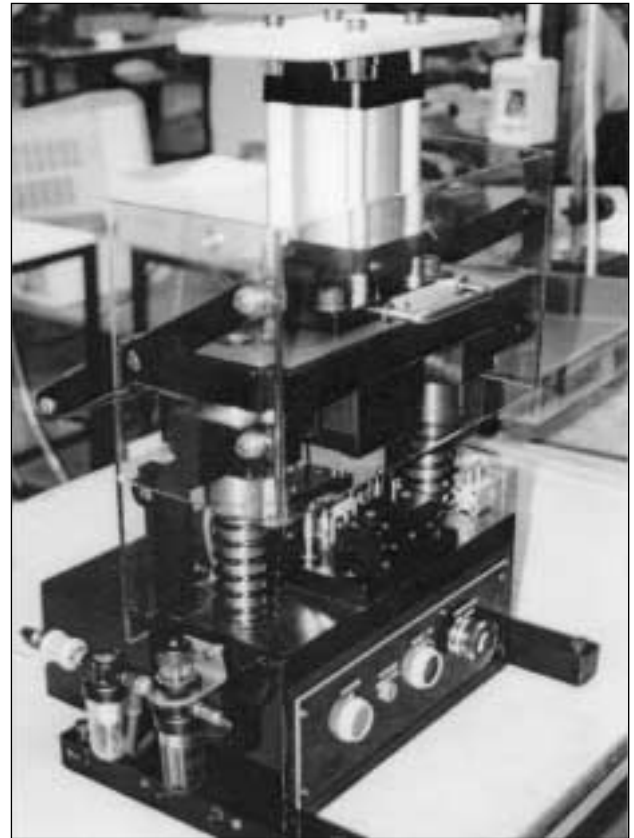
Approximate Cycle Time = approx. 3 complete kits per minute
= 3 x 60
= 180/per hour

Assume: 8 Hour Shift = 180 x 8
= 1,400/per shift

Assume: 20 days = 1,400 x 20
per Month = 28,800/per month

MINIMUM: 28,800 x 12 = 345,600/per annum

FRAMELESS KIT ASSEMBLY TOOL 06-9170-7010-00-000

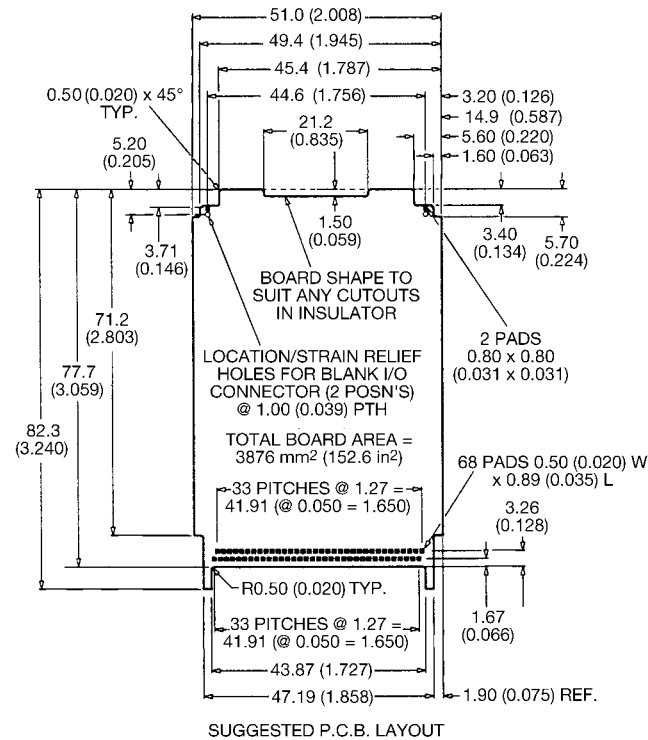


PCMCIA PC Memory Card Connectors

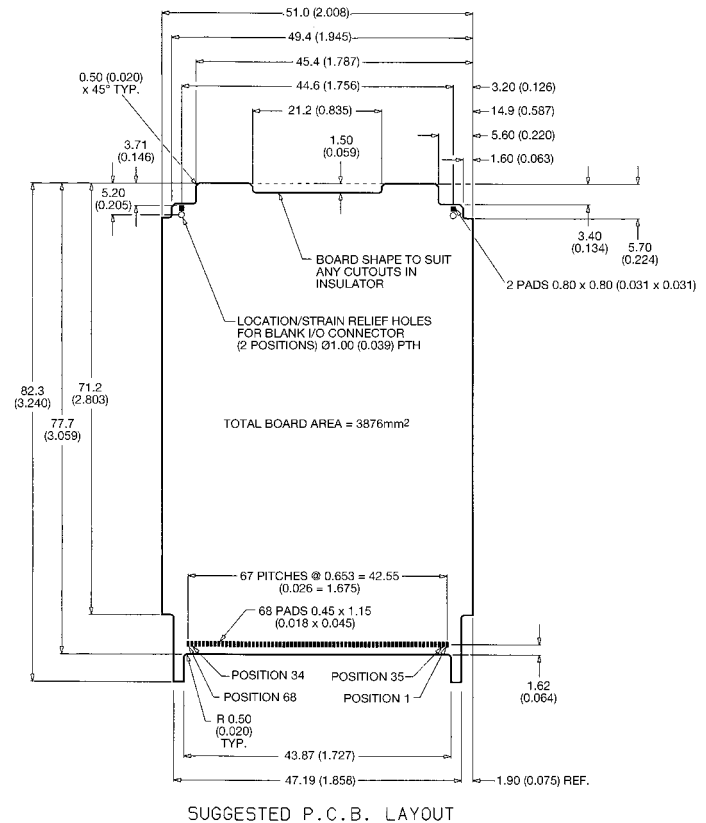
Series 9170 PCMCIA Type II Frameless Card Kit PCB Layout



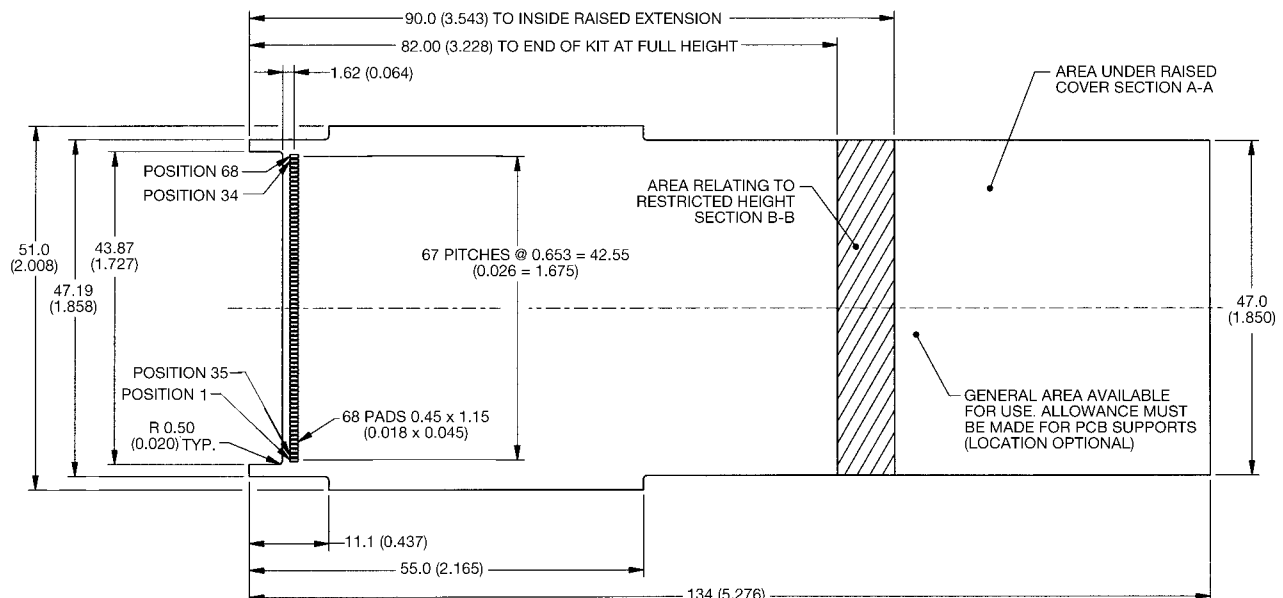
SSDR 0.40mm Offset



SSSR 0.40mm Offset



EXTENDED CARD SSSR 0.40mm Offset Typical



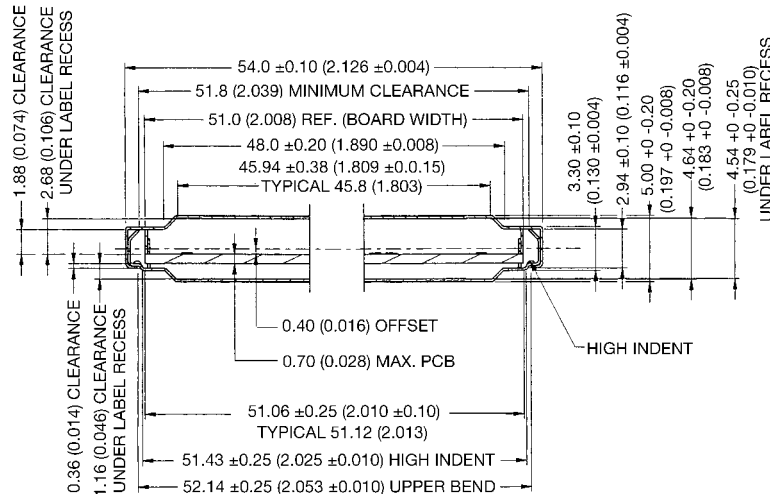
PCMCIA PC Memory Card Connectors

Series 9170 PCMCIA Type II Frameless Card Kit

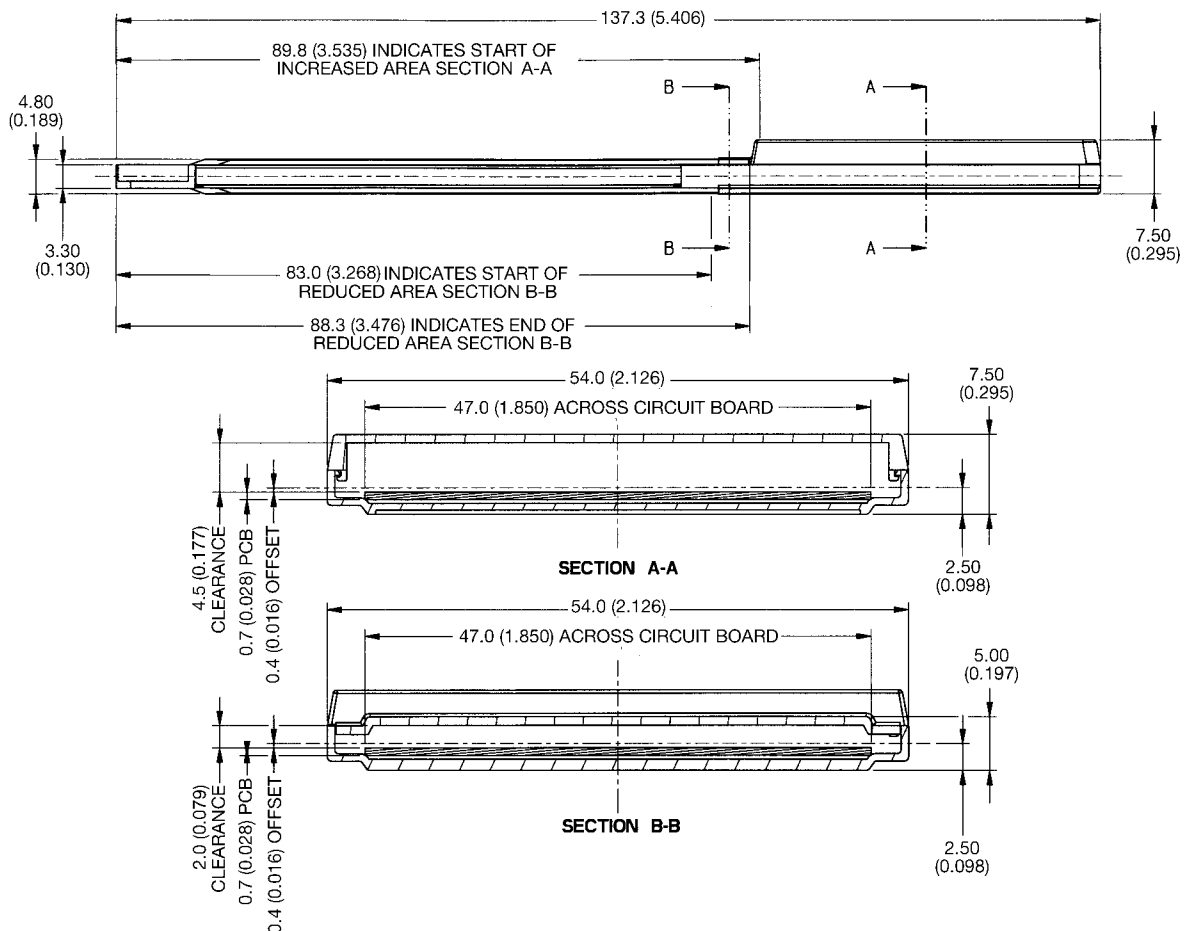
Cross Section View



CROSS SECTION VIEW USING 0.40mm Offset



CROSS SECTION VIEW USING EXTENDED KIT FOR WLAN APPLICATION TYPICAL



Compact Flash Memory Card Connectors



Features/Benefits

TYPE I

SERIES 5610/5611/5612

Series 5610, 5611 and 5612 are memory card connectors supporting Compact Flash. They are used for small portable devices such as digital cameras, Notebook PC, PDA, etc.

Series 5610 consists of header and ejector, Series 5611 of card receptacle connector and Series 5612 of card kit covers.

The header supports auto-mounting processes. It offers many options of ejector-button position and customized design. In addition to the normal and reverse type, standoff type (H=0/H=2.0) can also be offered, which enables the components to be mounted on the back side of card. The connector used for card side has variations of straddle mount type and single side mount type.

TECHNICAL SPECIFICATIONS

Series 5610

Number of Contacts:	50
Pitch:	1.27mm (0.05) Grid
Tail Pitch:	0.635mm (0.025)
Current Rating:	0.5A Max.
Voltage Rating:	5V Max.
DW Voltage:	500V rms/min.
Mating Cycles	10,000

Series 5611

Number of Contacts:	50
Pitch:	1.27mm (0.05) Grid
Tail Pitch	
Straddle:	1.27mm (0.05)
Single Side:	0.635mm (0.025)
Current Rating:	0.5A Max.
Voltage Rating:	5V Max.
DW Voltage:	500V rms/min.
Mating Cycles	10,000

TYPE II

SERIES 5620

Series 5620 is a memory card connector designed to comply with the Type II card standard of Compact Flash Association.

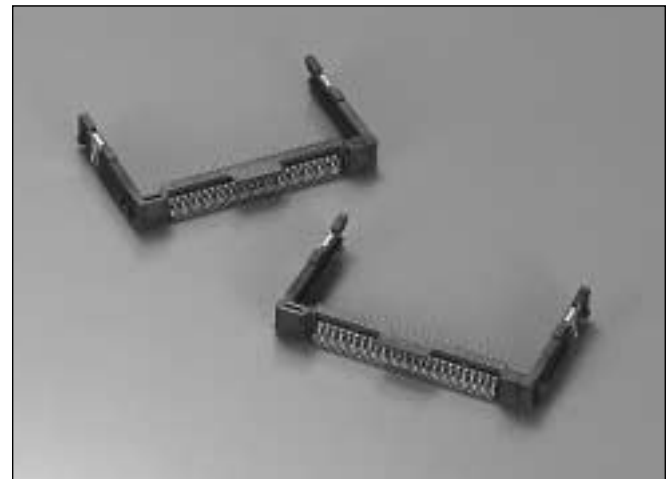
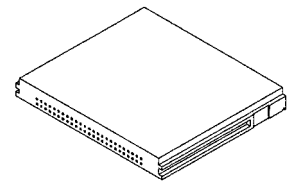
TECHNICAL SPECIFICATIONS

Number of Contacts:	50
Pitch:	1.27mm (0.05) Grid
Tail Pitch:	0.635mm (0.025)
Current Rating:	0.5A Max.
Voltage Rating:	5V Max.
DW Voltage:	500V rms/min.
Mating Cycles	10,000



TYPE I

TYPE II

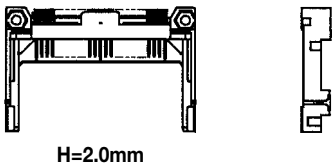


Compact Flash Memory Card Connectors

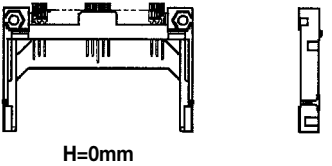


Series 5610/5620 Product Selection Guide

CONNECTOR



H=2.0mm

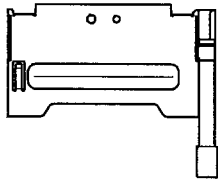


H=0mm

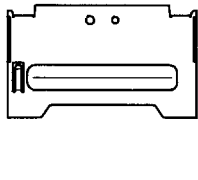
EJECTOR



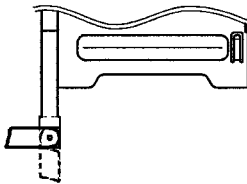
LEFT STRAIGHT BUTTON



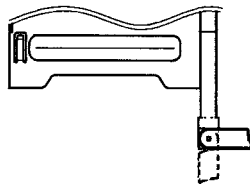
RIGHT STRAIGHT BUTTON



WITHOUT BUTTON



LEFT FOLDABLE BUTTON



RIGHT FOLDABLE BUTTON

CONNECTOR

Stand Off	Keying	Connector	Page
Type I Height=0	Normal	31 5610 050 500 871	34, 35
	Reverse	31 5610 050 550 871	
Type I Height=2.0	Normal	31 5610 050 210 871	36, 37
	Reverse	31 5610 050 260 871	
Type II Height=0	Normal	31 5620 050 116 871	38
Type II Height=2.0	Reverse	31 5620 050 716 871	39

CONNECTOR AND EJECTOR

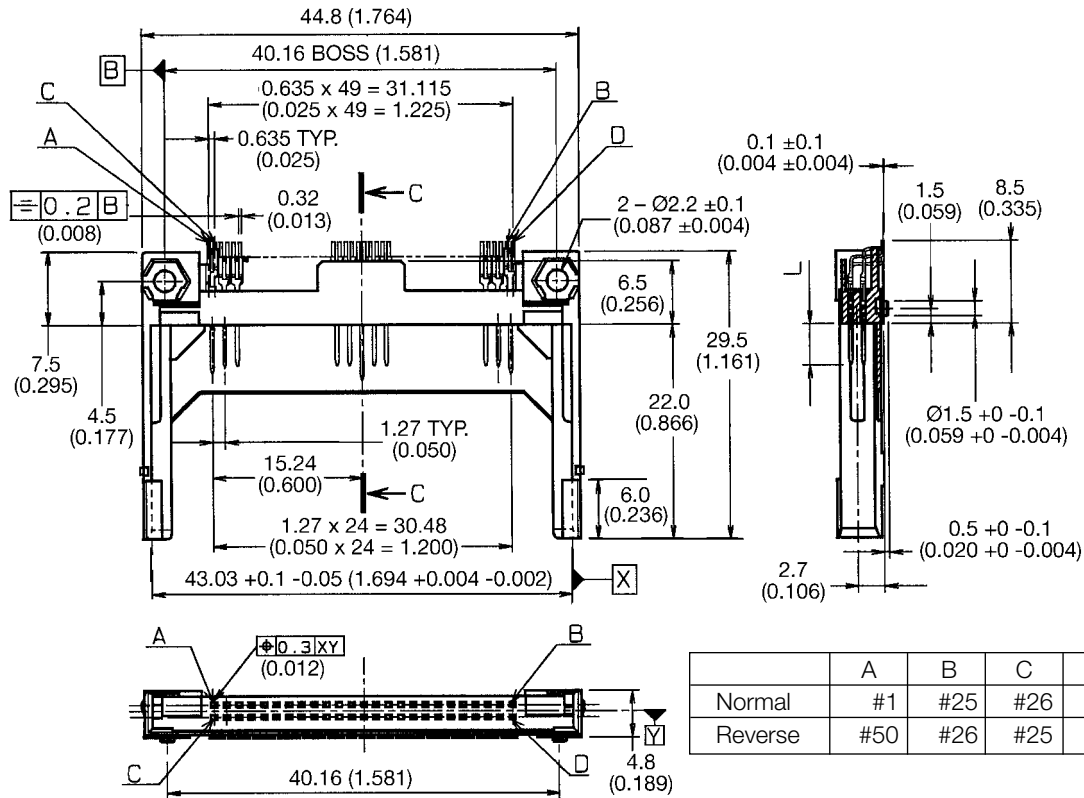
Connector Style		Ejector Style		How To Order		Page
Stand Off	Keying	Button Side		Connector	Ejector	
Type I Height=0	Normal	Straight	Left	31 5610 050 500 871	30 5610 000 001 000	34, 35
			Right	31 5610 050 500 871	30 5610 000 002 000	
		Foldable	Left	31 5610 050 500 871	30 5610 000 005 000	
			Right	31 5610 050 500 871	30 5610 000 006 000	
Type I Height=0	Reverse	Straight	Left	31 5610 050 550 871	30 5610 000 001 000	34, 35
			Right	31 5610 050 550 871	30 5610 000 002 000	
		Foldable	Left	31 5610 050 550 871	30 5610 000 005 000	
			Right	31 5610 050 550 871	30 5610 000 006 000	
Type I Height=2.0	Normal	Straight	Left	31 5610 050 210 871	30 5610 000 001 000	36, 37
			Right	31 5610 050 210 871	30 5610 000 002 000	
		Foldable	Left	31 5610 050 210 871	30 5610 000 005 000	
			Right	31 5610 050 210 871	30 5610 000 006 000	
Type I Height=2.0	Reverse	Straight	Left	31 5610 050 260 871	30 5610 000 001 000	36, 37
			Right	31 5610 050 260 871	30 5610 000 002 000	
		Foldable	Left	31 5610 050 260 871	30 5610 000 005 000	
			Right	31 5610 050 260 871	30 5610 000 006 000	
Type II Height=0	Normal	Straight	Left	31 5620 050 116 871	30 5620 000 001 000	38
			Right	31 5620 050 116 871	30 5620 000 002 000	
		Foldable	Left	31 5620 050 116 871	30 5620 000 005 000	
			Right	31 5620 050 116 871	30 5620 000 006 000	
Type II Height=2.0	Reverse	Straight	Left	31 5620 050 716 871	30 5620 000 001 000	39
			Right	31 5620 050 716 871	30 5620 000 002 000	
		Foldable	Left	31 5620 050 716 871	30 5620 000 005 000	
			Right	31 5620 050 716 871	30 5620 000 006 000	

Compact Flash Memory Card Connectors

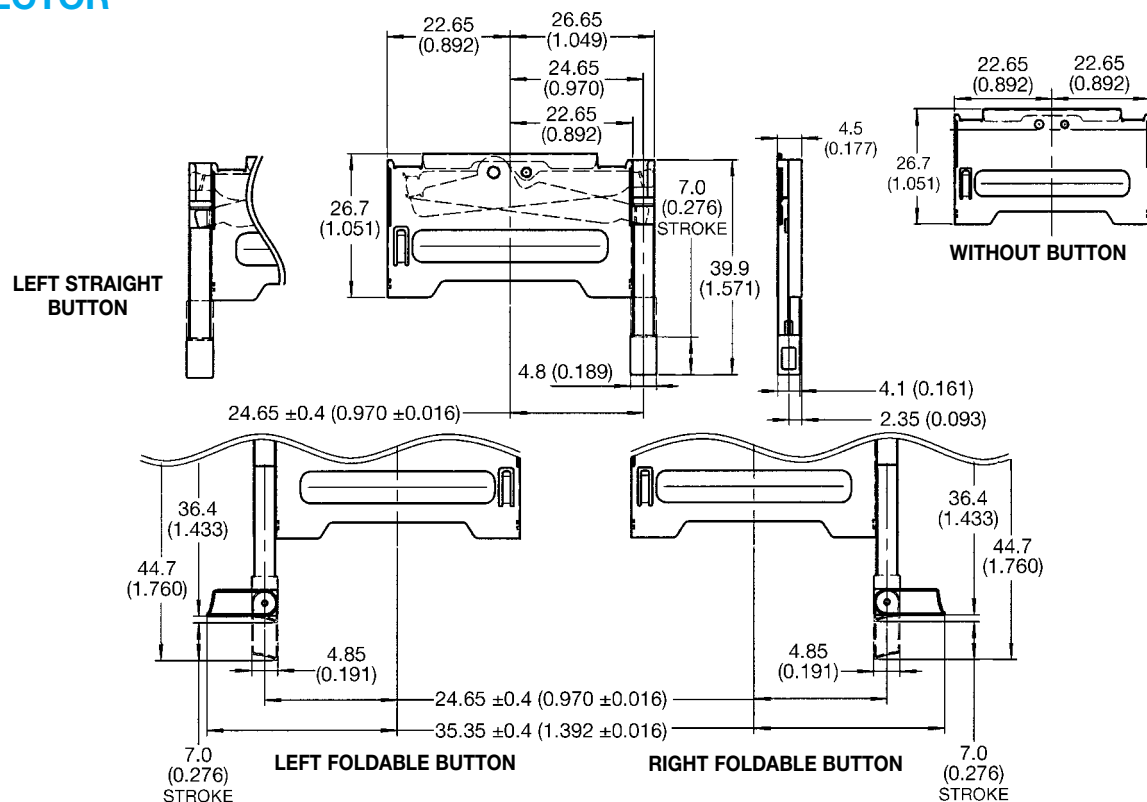


Series 5610 Header/Ejector Assembly H=0mm

CONNECTOR

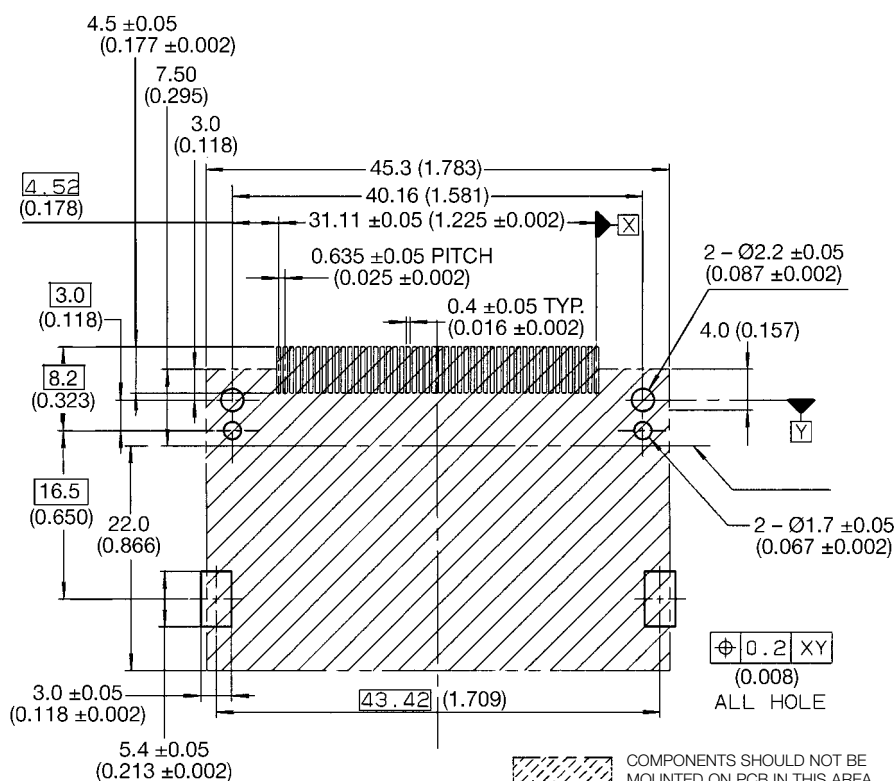


EJECTOR



See page 33 for How To Order

ASSEMBLY



RECOMMENDED PRINTED CIRCUIT LAYOUT

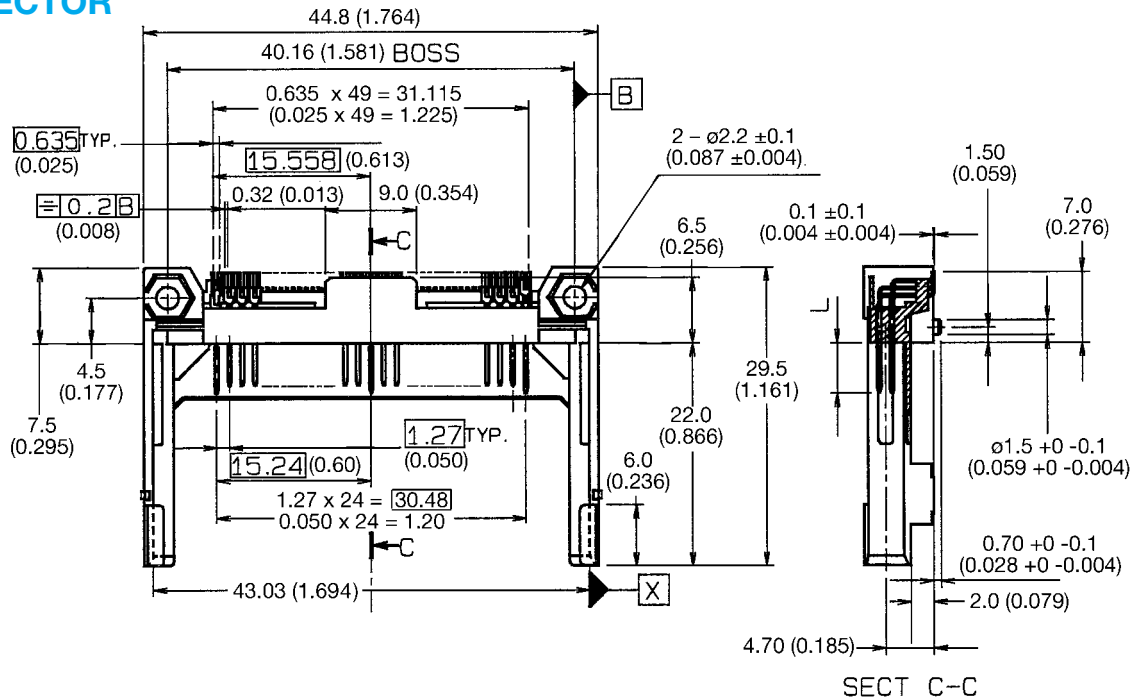
	A	B	C	D
Normal	#1	#25	#26	#50
Reverse	#50	#26	#25	#1

Compact Flash Memory Card Connectors

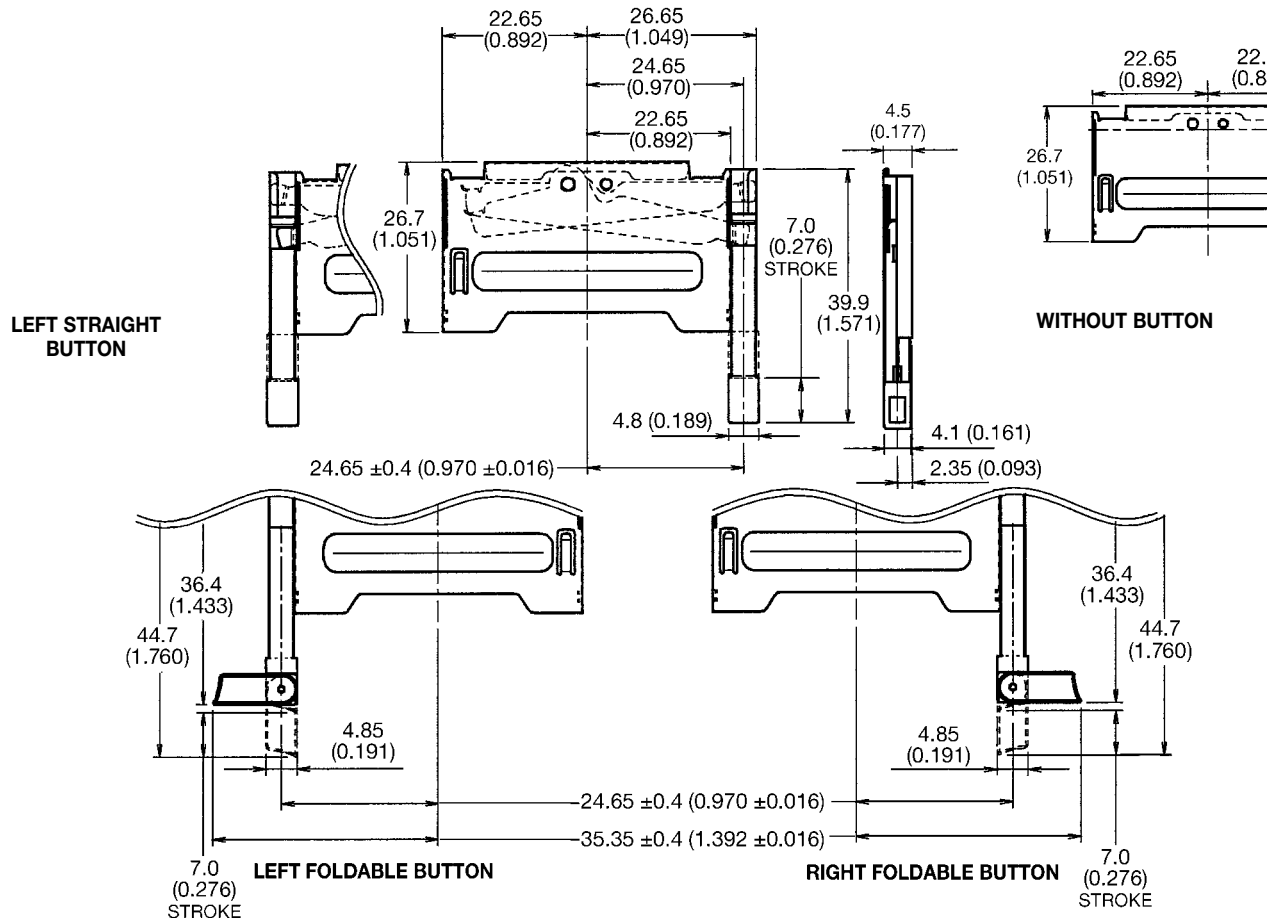


Series 5610 Header/Ejector Assembly H=2mm

CONNECTOR



EJECTOR



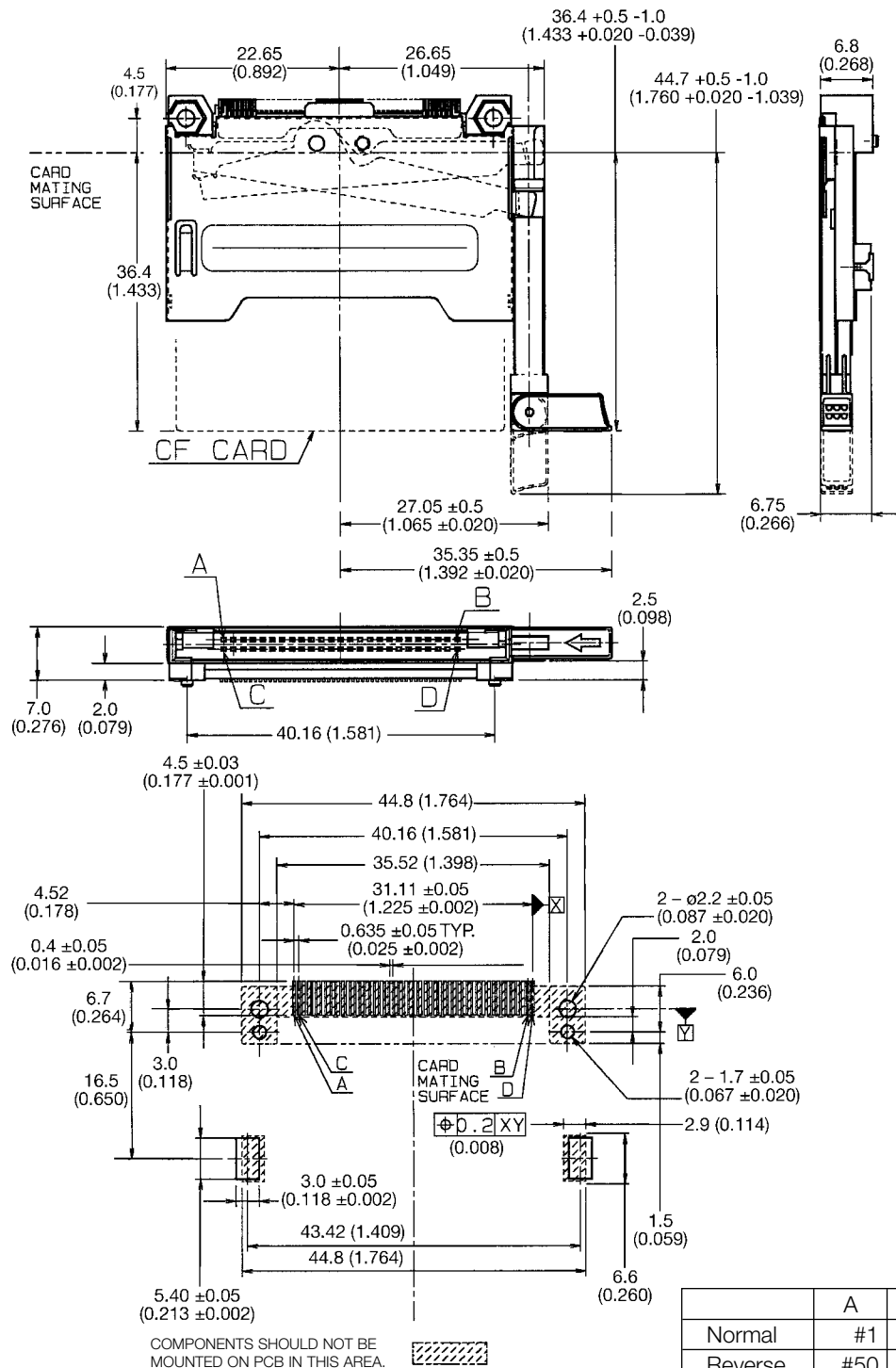
See page 33 for How To Order

Compact Flash Memory Card Connectors



Series 5610 Header/Ejector Assembly H=2mm

ASSEMBLY



RECOMMENDED PRINTED CIRCUIT LAYOUT

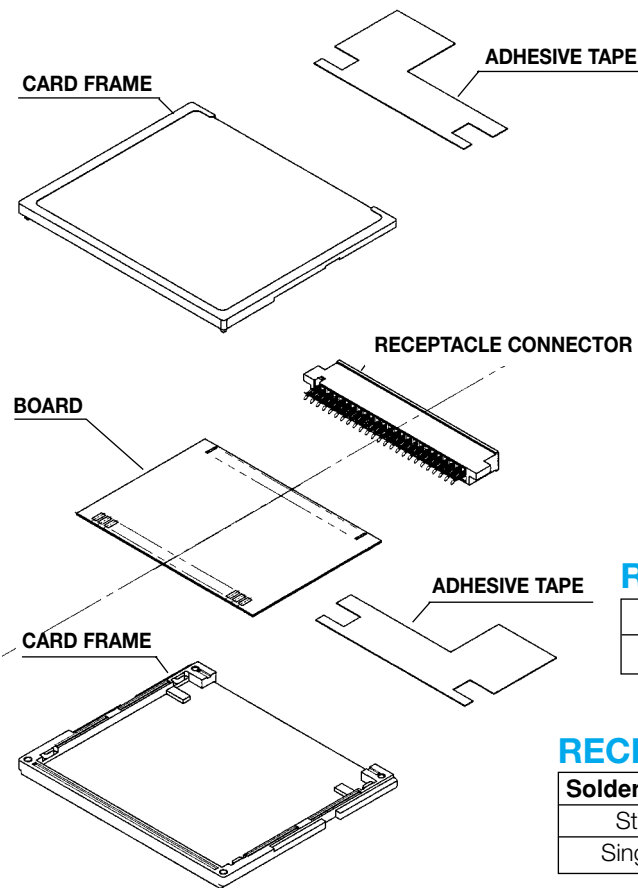
	A	B	C	D
Normal	#1	#25	#26	#50
Reverse	#50	#26	#25	#1

CONNECTOR			
Height	Boss	Key	How To Order
H=2.2	0.7	Normal	31 5610 050 210 871
		Reverse	31 5610 050 260 871

Compact Flash Memory Card Connectors



Series 5611/5612 How To Order



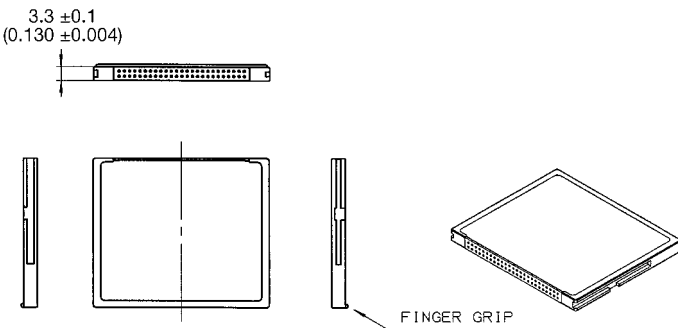
RECOMMENDED PRINTED CIRCUIT LAYOUT

KEYING	A	B	C	D	E	F	G	H
Normal	1.4	0.78	1	13	25	26	38	50

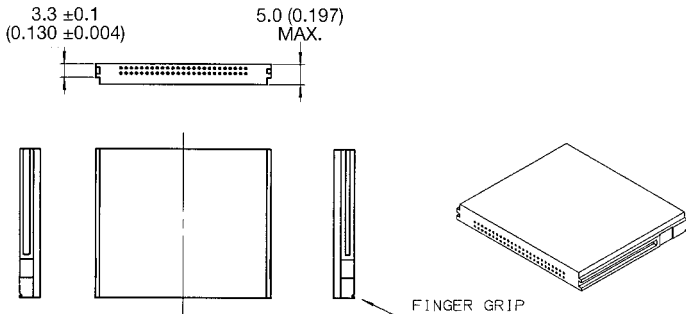
RECEPTACLE CONNECTOR SERIES 5611

Solder Tail Style	How To Order	Pkg. Qty.	Page
Straddle	20 5611 050 113 871	Semi-Hard Tray/60 pcs	42
Single Side	24 5611 050 214 061	Tape and Reel/1000 pcs	42

TYPE I



TYPE II



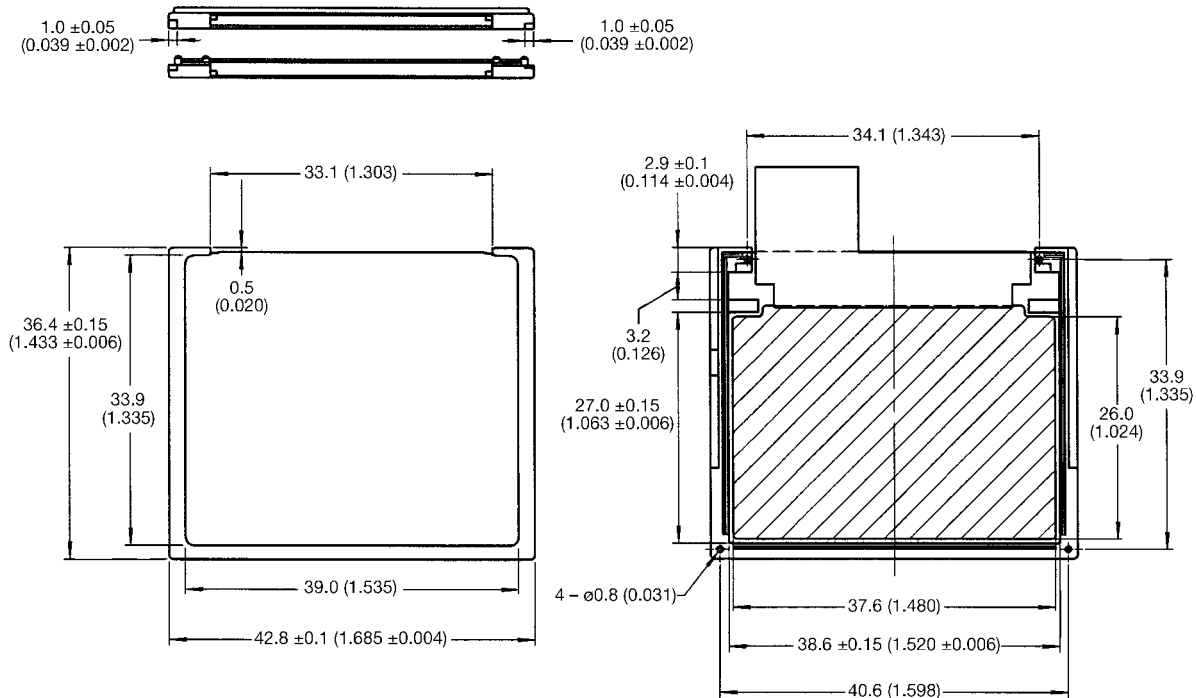
TYPE II CARD KIT
is not available now.

Compact Flash Memory Card Connectors

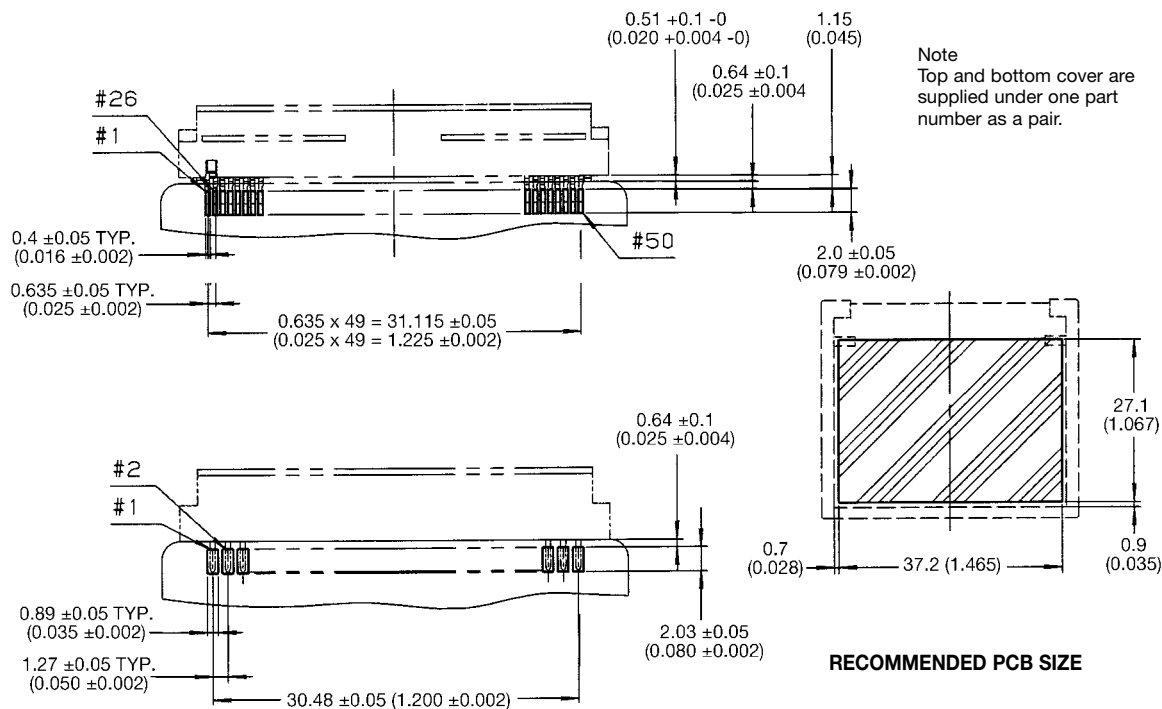


Series 5612 TYPE I Card Kit Covers

SERIES 5612 CARD KIT



	How To Order	Pkg. Qty.
With Insulating Tape	10 5612 100 000 011	24 pcs/Tray 240 pcs/Box



RECOMMENDED PCB PATTERN

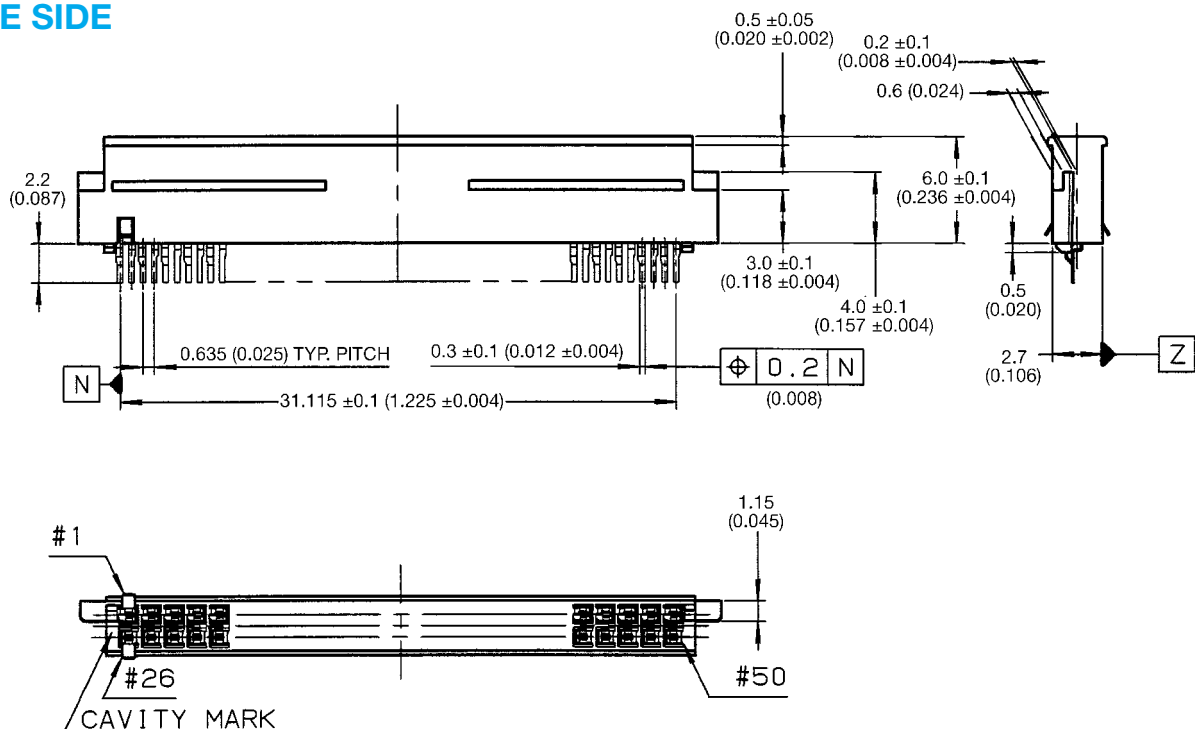
RECOMMENDED PCB SIZE

Compact Flash Memory Card Connectors



Series 5611 Receptacle Connector

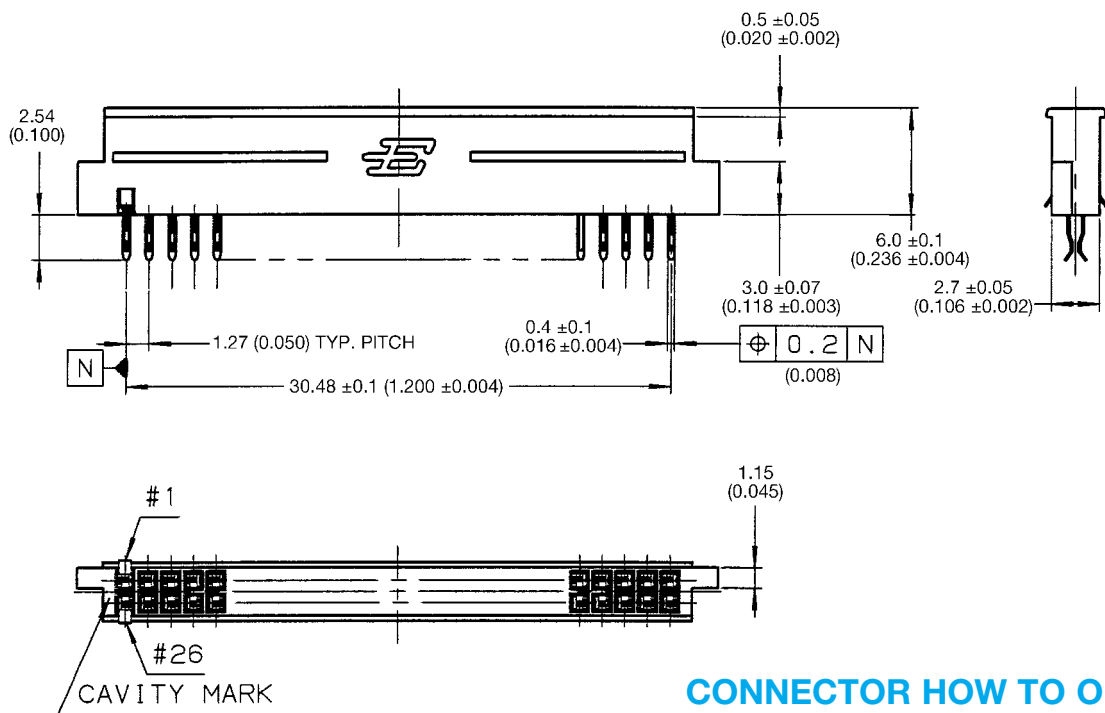
SINGLE SIDE



CONNECTOR HOW TO ORDER

24 5611 050 214 061

STRADDLE TAIL



CONNECTOR HOW TO ORDER

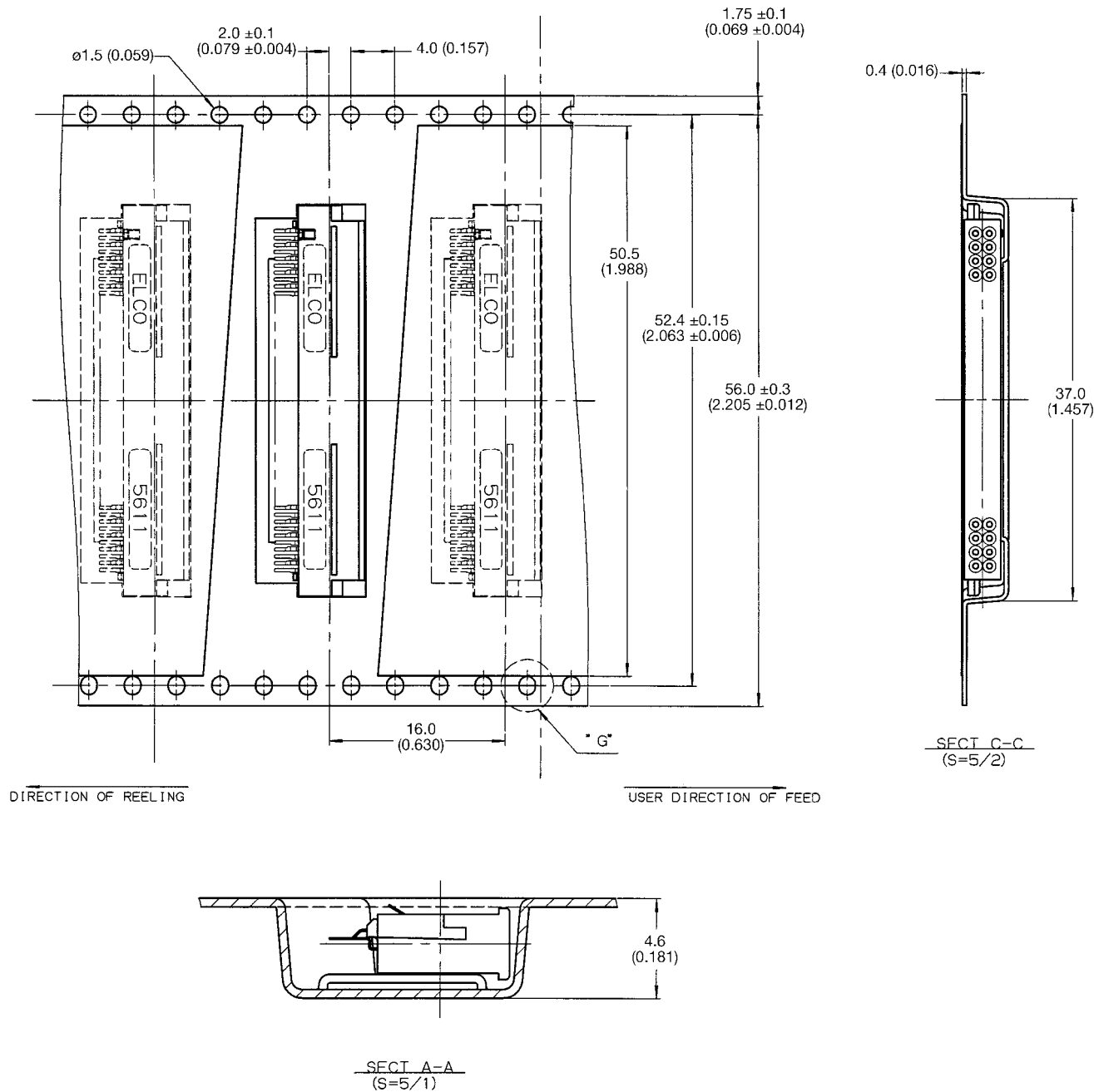
20 5611 050 113 871

Compact Flash Memory Card Connectors



Series 5611 Receptacle Connector Package

TAPE AND REEL PACKAGE



CONNECTOR HOW TO ORDER

24 5611 050 XXX XXX

113 Straddle 871
214 Single Side 061

1000 pieces per Tape and Reel

Features/Benefits

SERIES 5038

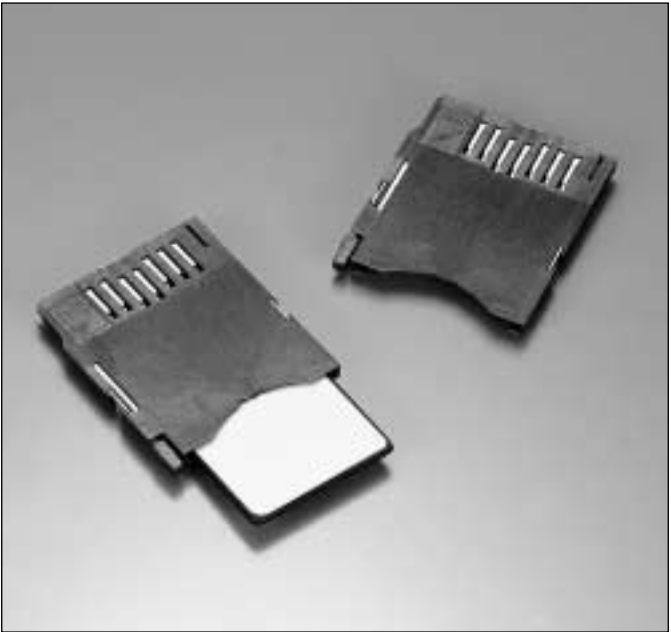
Series 5038 is the MMC (Multi Media Card) Connector developed to comply with the requirement of high-density mounting in the market and designed especially for the slim type Note PC and Portable equipment.

FEATURES

- SMT, Single, Reverse Type
- Correspond to the size of MMC Card (32mm (1.260) x 24mm (0.945) x 1.4mm (0.055))
- Both ejector and without ejector type available
- Ejector type achieves easy insertion and separation of card
- Low-profile of as much as 2.6mm (0.102)
- Adoption of guide rail type which prevents the direct contact of card on the board for the low-profile design
- High durability for 10,000 cycles insertion/separation

TECHNICAL SPECIFICATIONS

Number of Contacts:	7P
Pitch:	2.5mm (0.098)
Current Rating:	AC0.5A Max. DC0.5A Pin
Voltage Rating:	AC5V DC5V Pin
DW Voltage:	500V rms/min.
Mating Cycles	10,000

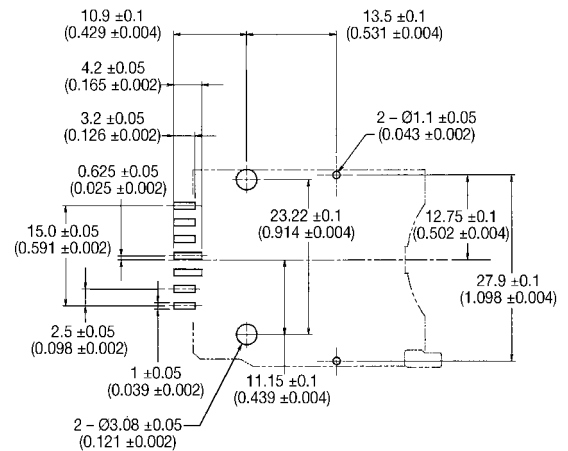
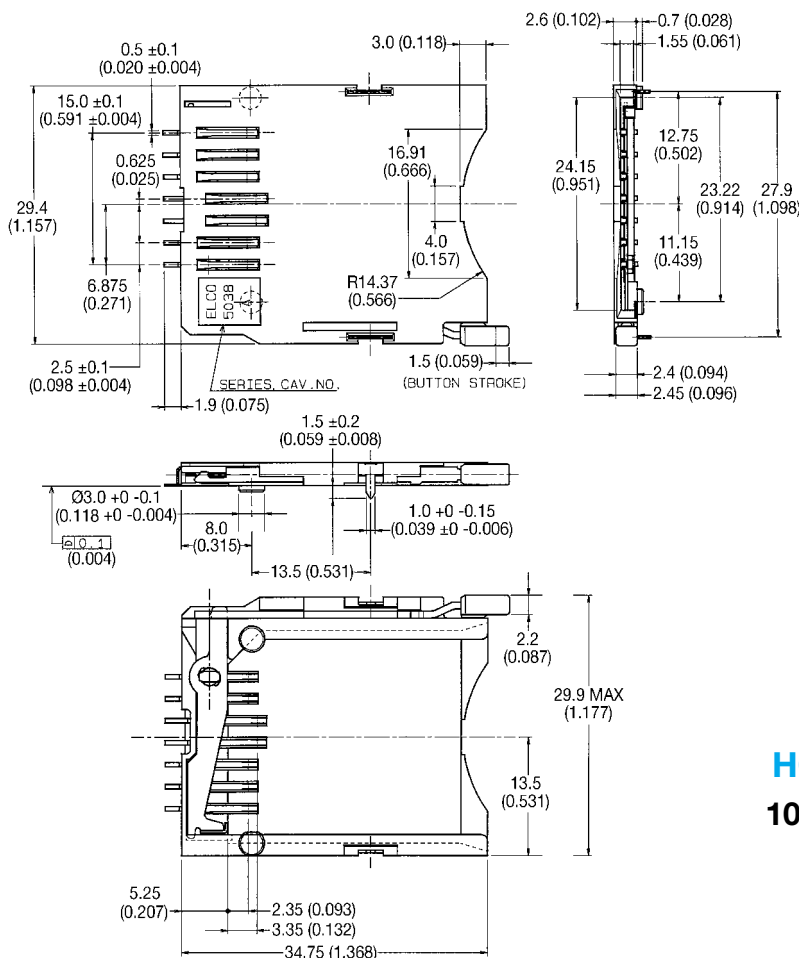


PRODUCT SELECTION GUIDE

Keying	Ejector Style		How To Order	Page
Reverse	With ejector	Reflow pin type	10 5038 007 052 862	45
	Without ejector	Reflow pin type	10 5038 007 252 862	46
		SMT Type	10 5038 007 251 862	46
	Push/Push ejector	Reflow pin type	10 5038 007 353 862	47
		SMT Type	10 5038 007 354 862	47

Multi Media Card Connectors

Series 5038 With Ejector

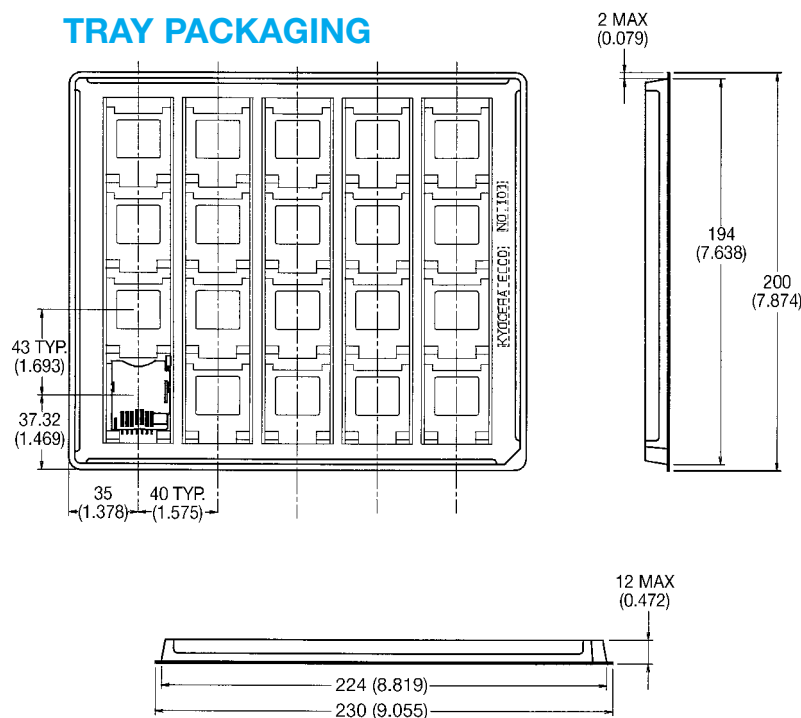


HOW TO ORDER

10 5038 007 052 862

QUANTITY: 20/TRAY
200/BOX

TRAY PACKAGING



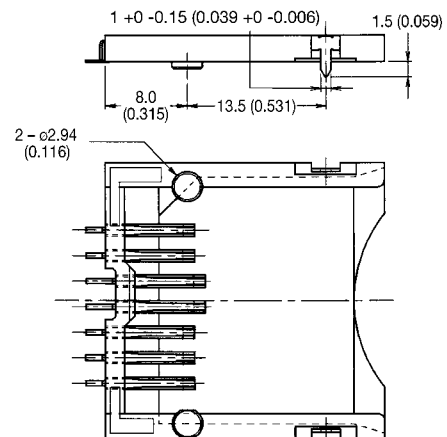
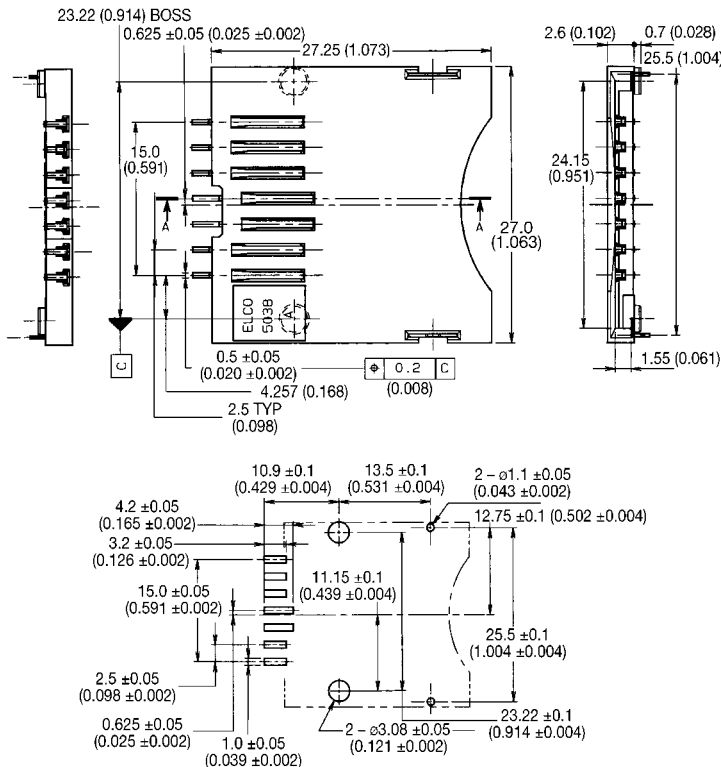
ELCO

Multi Media Card Connectors

Series 5038 Without Ejector



REFLOW PIN TYPE



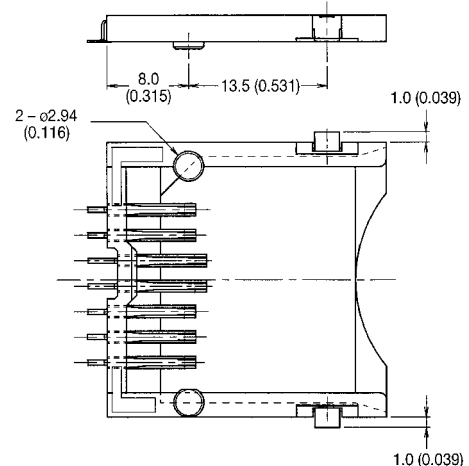
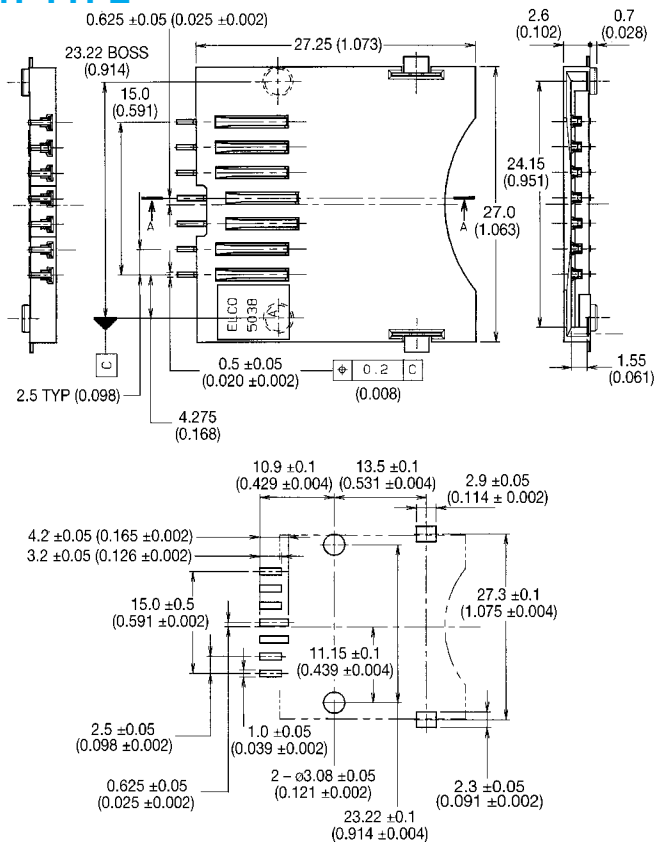
HOW TO ORDER

10 5038 007 252 862

QUANTITY: 25/TRAY
250/BOX

RECOMMENDED PC BOARD LAYOUT

SMT TYPE



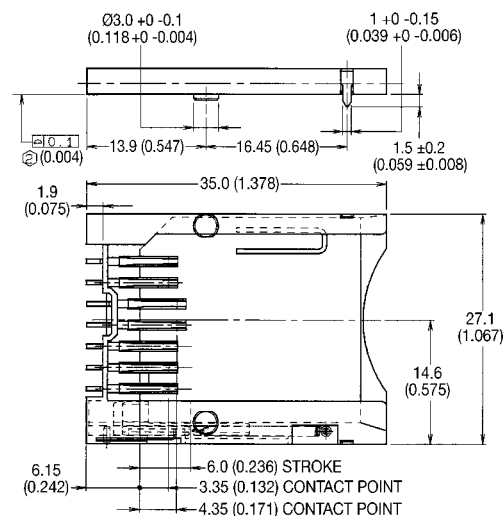
HOW TO ORDER

10 5038 007 251 862

QUANTITY: 25/TRAY
500/BOX

RECOMMENDED PC BOARD LAYOUT

REFLOW PIN TYPE



10 5038 007 353 862

QUANTITY: 25/TRAY
250/BOX

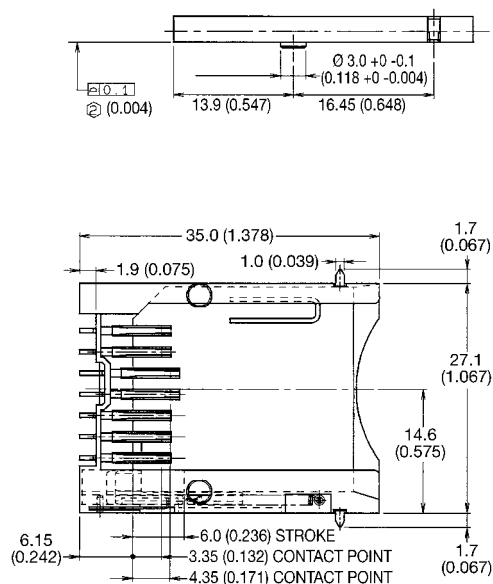
RECOMMENDED PC BOARD LAYOUT

Technical drawing of the SM-1T connector, showing front, side, and detail views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall width: 14.9 ± 0.1 (0.587 ± 0.004)
- Top pin spacing: 0.625 ± 0.05 (0.025 ± 0.002)
- Pin 1 to Pin 10 distance: 15.0 ± 0.05 (0.591 ± 0.002)
- Pin 10 to Pin 11 distance: 2.5 ± 0.05 (0.098 ± 0.002)
- Pin 11 to Pin 12 distance: 1.0 ± 0.05 (0.039 ± 0.002)
- Pin 12 to Pin 13 distance: 2 - Ø 3.08 ± 0.05 (0.121 ± 0.002)
- Pin 13 to Pin 14 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 14 to Pin 15 distance: 4.2 ± 0.05 (0.165 ± 0.002)
- Pin 15 to Pin 16 distance: 16.45 ± 0.1 (0.648 ± 0.004)
- Pin 16 to Pin 17 distance: 1.5 ± 0.05 (0.059 ± 0.002)
- Pin 17 to Pin 18 distance: 23.14 ± 0.1 (0.911 ± 0.004)
- Pin 18 to Pin 19 distance: 28.7 ± 0.1 (1.130 ± 0.004)
- Pin 19 to Pin 20 distance: 1.05 (0.041)
- Pin 20 to Pin 21 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 21 to Pin 22 distance: 11.07 ± 0.1 (0.436 ± 0.004)
- Pin 22 to Pin 23 distance: 1.0 ± 0.05 (0.039 ± 0.002)
- Pin 23 to Pin 24 distance: 2.5 ± 0.05 (0.098 ± 0.002)
- Pin 24 to Pin 25 distance: 15.0 ± 0.05 (0.591 ± 0.002)
- Pin 25 to Pin 26 distance: 0.625 ± 0.05 (0.025 ± 0.002)
- Pin 26 to Pin 27 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 27 to Pin 28 distance: 4.2 ± 0.05 (0.165 ± 0.002)
- Pin 28 to Pin 29 distance: 16.45 ± 0.1 (0.648 ± 0.004)
- Pin 29 to Pin 30 distance: 1.5 ± 0.05 (0.059 ± 0.002)
- Pin 30 to Pin 31 distance: 23.14 ± 0.1 (0.911 ± 0.004)
- Pin 31 to Pin 32 distance: 28.7 ± 0.1 (1.130 ± 0.004)
- Pin 32 to Pin 33 distance: 1.05 (0.041)
- Pin 33 to Pin 34 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 34 to Pin 35 distance: 11.07 ± 0.1 (0.436 ± 0.004)
- Pin 35 to Pin 36 distance: 1.0 ± 0.05 (0.039 ± 0.002)
- Pin 36 to Pin 37 distance: 2.5 ± 0.05 (0.098 ± 0.002)
- Pin 37 to Pin 38 distance: 15.0 ± 0.05 (0.591 ± 0.002)
- Pin 38 to Pin 39 distance: 0.625 ± 0.05 (0.025 ± 0.002)
- Pin 39 to Pin 40 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 40 to Pin 41 distance: 4.2 ± 0.05 (0.165 ± 0.002)
- Pin 41 to Pin 42 distance: 16.45 ± 0.1 (0.648 ± 0.004)
- Pin 42 to Pin 43 distance: 1.5 ± 0.05 (0.059 ± 0.002)
- Pin 43 to Pin 44 distance: 23.14 ± 0.1 (0.911 ± 0.004)
- Pin 44 to Pin 45 distance: 28.7 ± 0.1 (1.130 ± 0.004)
- Pin 45 to Pin 46 distance: 1.05 (0.041)
- Pin 46 to Pin 47 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 47 to Pin 48 distance: 11.07 ± 0.1 (0.436 ± 0.004)
- Pin 48 to Pin 49 distance: 1.0 ± 0.05 (0.039 ± 0.002)
- Pin 49 to Pin 50 distance: 2.5 ± 0.05 (0.098 ± 0.002)
- Pin 50 to Pin 51 distance: 15.0 ± 0.05 (0.591 ± 0.002)
- Pin 51 to Pin 52 distance: 0.625 ± 0.05 (0.025 ± 0.002)
- Pin 52 to Pin 53 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 53 to Pin 54 distance: 4.2 ± 0.05 (0.165 ± 0.002)
- Pin 54 to Pin 55 distance: 16.45 ± 0.1 (0.648 ± 0.004)
- Pin 55 to Pin 56 distance: 1.5 ± 0.05 (0.059 ± 0.002)
- Pin 56 to Pin 57 distance: 23.14 ± 0.1 (0.911 ± 0.004)
- Pin 57 to Pin 58 distance: 28.7 ± 0.1 (1.130 ± 0.004)
- Pin 58 to Pin 59 distance: 1.05 (0.041)
- Pin 59 to Pin 60 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 60 to Pin 61 distance: 11.07 ± 0.1 (0.436 ± 0.004)
- Pin 61 to Pin 62 distance: 1.0 ± 0.05 (0.039 ± 0.002)
- Pin 62 to Pin 63 distance: 2.5 ± 0.05 (0.098 ± 0.002)
- Pin 63 to Pin 64 distance: 15.0 ± 0.05 (0.591 ± 0.002)
- Pin 64 to Pin 65 distance: 0.625 ± 0.05 (0.025 ± 0.002)
- Pin 65 to Pin 66 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 66 to Pin 67 distance: 4.2 ± 0.05 (0.165 ± 0.002)
- Pin 67 to Pin 68 distance: 16.45 ± 0.1 (0.648 ± 0.004)
- Pin 68 to Pin 69 distance: 1.5 ± 0.05 (0.059 ± 0.002)
- Pin 69 to Pin 70 distance: 23.14 ± 0.1 (0.911 ± 0.004)
- Pin 70 to Pin 71 distance: 28.7 ± 0.1 (1.130 ± 0.004)
- Pin 71 to Pin 72 distance: 1.05 (0.041)
- Pin 72 to Pin 73 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 73 to Pin 74 distance: 11.07 ± 0.1 (0.436 ± 0.004)
- Pin 74 to Pin 75 distance: 1.0 ± 0.05 (0.039 ± 0.002)
- Pin 75 to Pin 76 distance: 2.5 ± 0.05 (0.098 ± 0.002)
- Pin 76 to Pin 77 distance: 15.0 ± 0.05 (0.591 ± 0.002)
- Pin 77 to Pin 78 distance: 0.625 ± 0.05 (0.025 ± 0.002)
- Pin 78 to Pin 79 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 79 to Pin 80 distance: 4.2 ± 0.05 (0.165 ± 0.002)
- Pin 80 to Pin 81 distance: 16.45 ± 0.1 (0.648 ± 0.004)
- Pin 81 to Pin 82 distance: 1.5 ± 0.05 (0.059 ± 0.002)
- Pin 82 to Pin 83 distance: 23.14 ± 0.1 (0.911 ± 0.004)
- Pin 83 to Pin 84 distance: 28.7 ± 0.1 (1.130 ± 0.004)
- Pin 84 to Pin 85 distance: 1.05 (0.041)
- Pin 85 to Pin 86 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 86 to Pin 87 distance: 11.07 ± 0.1 (0.436 ± 0.004)
- Pin 87 to Pin 88 distance: 1.0 ± 0.05 (0.039 ± 0.002)
- Pin 88 to Pin 89 distance: 2.5 ± 0.05 (0.098 ± 0.002)
- Pin 89 to Pin 90 distance: 15.0 ± 0.05 (0.591 ± 0.002)
- Pin 90 to Pin 91 distance: 0.625 ± 0.05 (0.025 ± 0.002)
- Pin 91 to Pin 92 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 92 to Pin 93 distance: 4.2 ± 0.05 (0.165 ± 0.002)
- Pin 93 to Pin 94 distance: 16.45 ± 0.1 (0.648 ± 0.004)
- Pin 94 to Pin 95 distance: 1.5 ± 0.05 (0.059 ± 0.002)
- Pin 95 to Pin 96 distance: 23.14 ± 0.1 (0.911 ± 0.004)
- Pin 96 to Pin 97 distance: 28.7 ± 0.1 (1.130 ± 0.004)
- Pin 97 to Pin 98 distance: 1.05 (0.041)
- Pin 98 to Pin 99 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 99 to Pin 100 distance: 11.07 ± 0.1 (0.436 ± 0.004)
- Pin 100 to Pin 101 distance: 1.0 ± 0.05 (0.039 ± 0.002)
- Pin 101 to Pin 102 distance: 2.5 ± 0.05 (0.098 ± 0.002)
- Pin 102 to Pin 103 distance: 15.0 ± 0.05 (0.591 ± 0.002)
- Pin 103 to Pin 104 distance: 0.625 ± 0.05 (0.025 ± 0.002)
- Pin 104 to Pin 105 distance: 2.3 ± 0.05 (0.091 ± 0.002)
- Pin 105 to Pin 106 distance: 4.2 ± 0.05 (0.165 ± 0.002)
- Pin 106 to Pin 107 distance: 16.45 ± 0.1 (0.648 ± 0.004)
- Pin 107 to Pin 108 distance: 1.5 ± 0.05 (0.059 ± 0.002)
- Pin 108 to Pin 1

RECOMMENDED PC BOARD LAYOUT



10 5038 007 354 862

QUANTITY: 20/TRAY
400/BOX

Secure Digital Memory Card Connectors



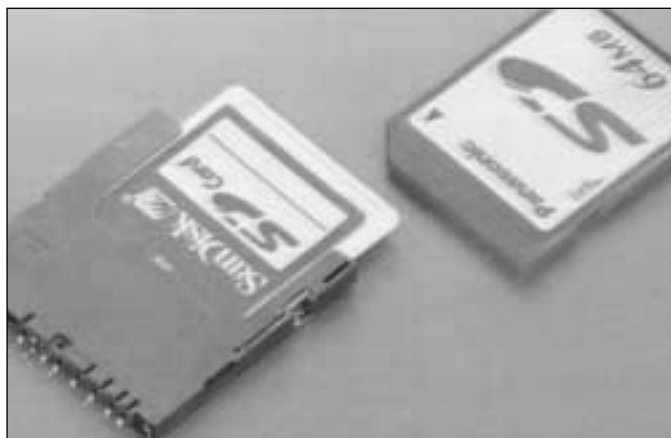
Features/Benefits

SERIES 5638

SD (Secure Digital) Memory Card technology is emerging as the next industry standard for removable flash memory and input/output devices. AVX has developed a complete range of top and bottom mount connectors with and without ejector features for such applications as MP3 Players, PDAs, Cellular Phones, Digital Cameras, Digital Camcorder, etc.

FEATURES

- Conforms to SDA (Secure Digital Association) requirements
- Low profile 2.9mm height
- Integral guide rails
- Location boss's and solder tabs
- Normal and reverse keying
- Card detection feature
- Accepts both SD and Multimedia Cards
- Tape and reel packaging
- Mating cycles 10,000



ELECTRICAL CHARACTERISTICS

Current Rating: 0.5A
Voltage Rating: 5V
Insulation Resistance: 1000M Ω min.
Contact Resistance: 40m Ω max.
DW Voltage: AC 500V

CLIMATIC CHARACTERISTICS

Operating Temperature: -25°C to +90°C

PRODUCT SELECTION GUIDE

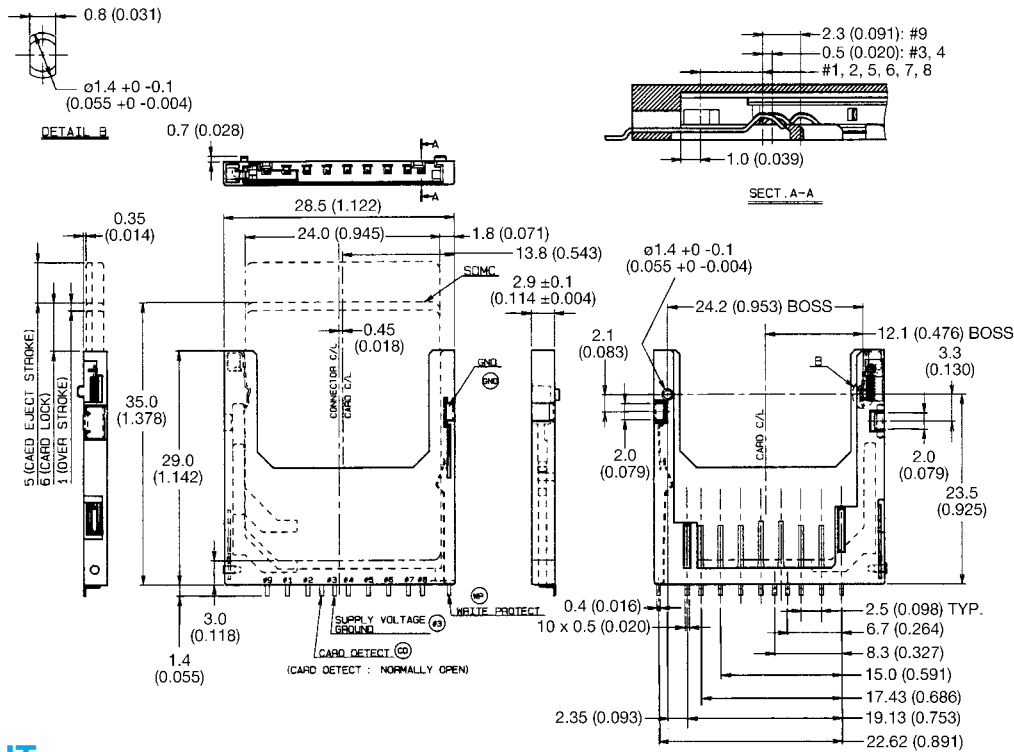
Keying	PCB Mounting	Height	Ejector Style	How To Order	Page
Normal	Top	2.9mm	Push/Push Ejector	14 5638 009 511 862	49
Reverse	Bottom	2.9mm	Push/Push Ejector	14 5638 109 511 862	50
Normal	Top	2.9mm	Without Ejector	14 5638 009 211 862	51
Reverse	Bottom	2.9mm	Without Ejector	14 5638 109 211 862	52

Secure Digital Memory Card Connectors

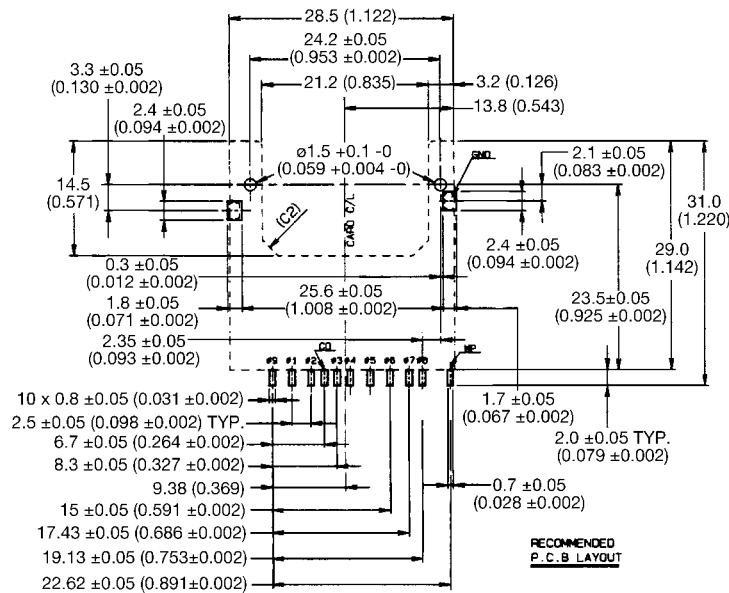


Series 5638 Spring Eject Type

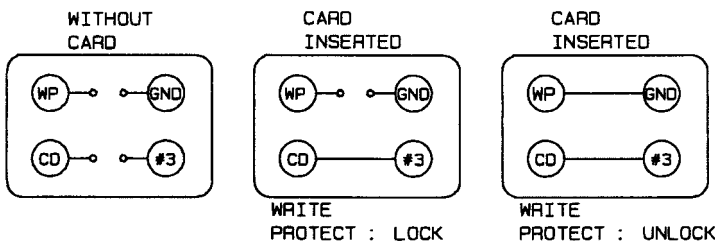
NORMAL



PCB LAYOUT



CIRCUIT



HOW TO ORDER

14 5638 009 511 862

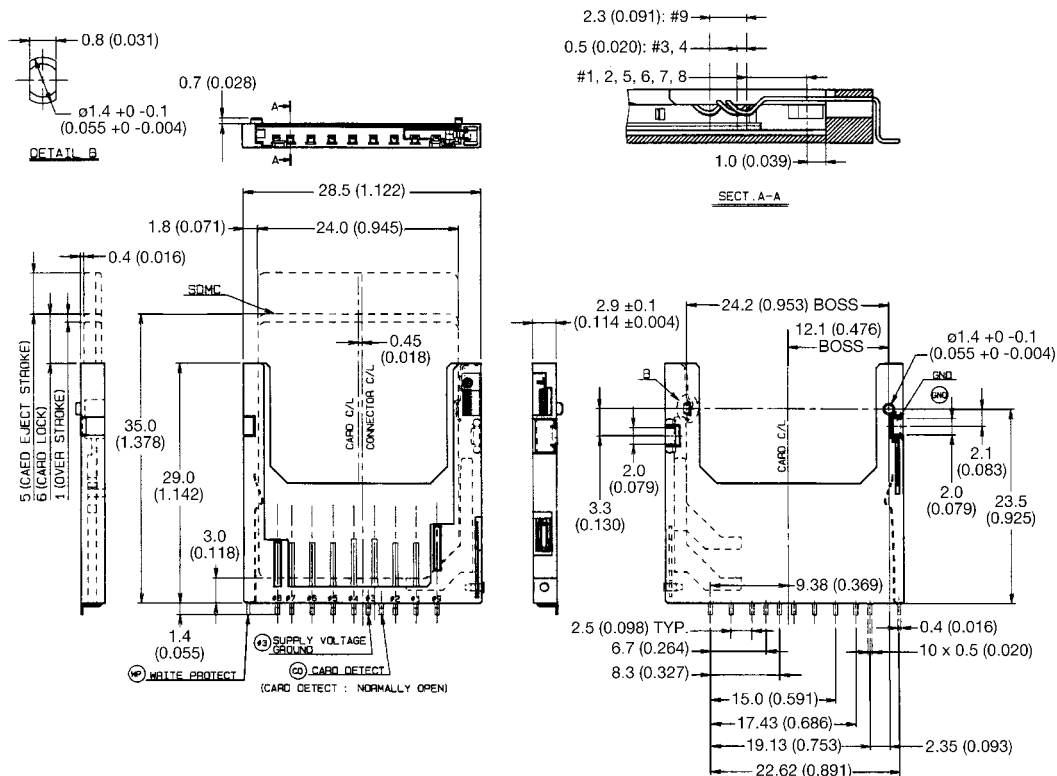
250 pieces per Tape and Reel

Secure Digital Memory Card Connectors

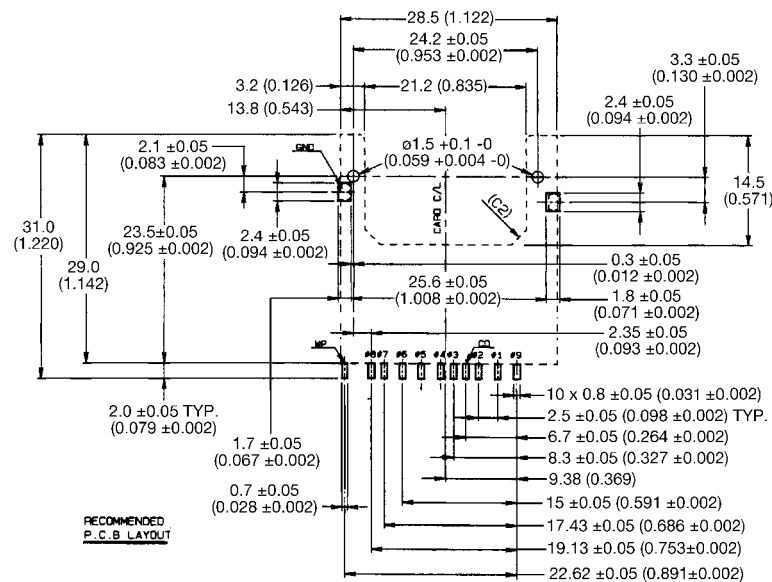


Series 5638 Spring Eject Type

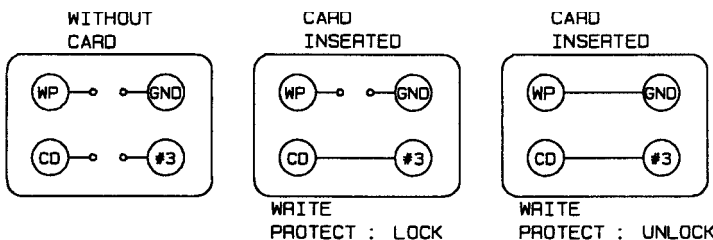
REVERSE



PCB LAYOUT



CIRCUIT



HOW TO ORDER

14 5638 109 511 862

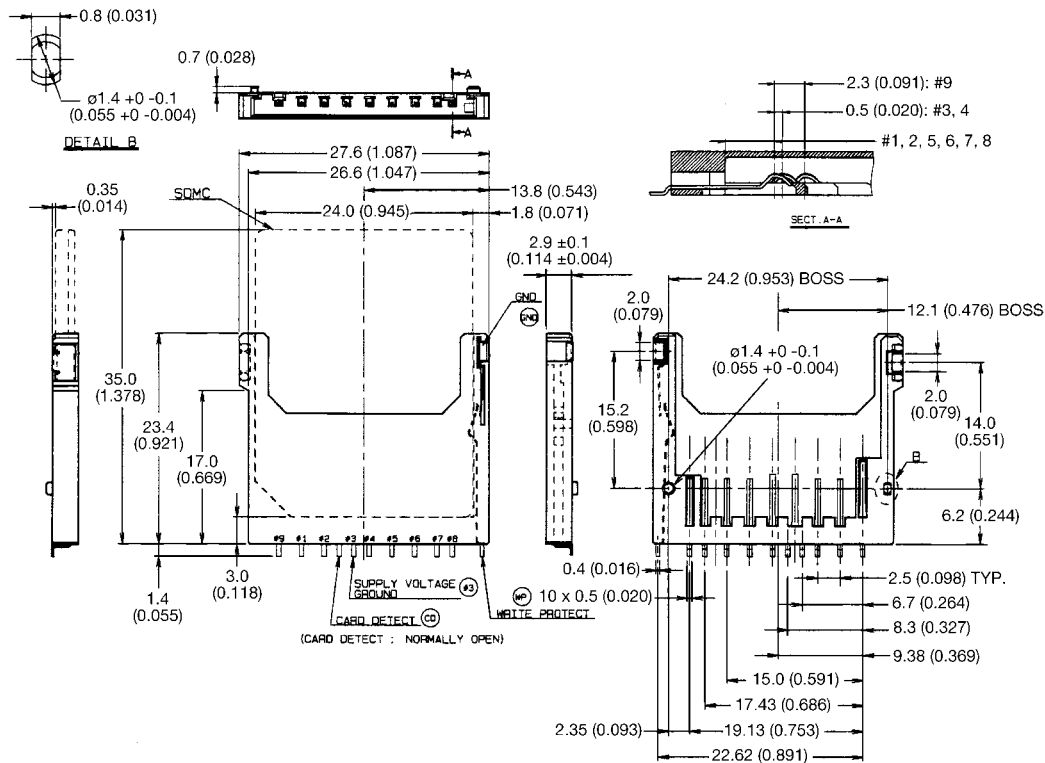
250 pieces per Tape and Reel

Secure Digital Memory Card Connectors

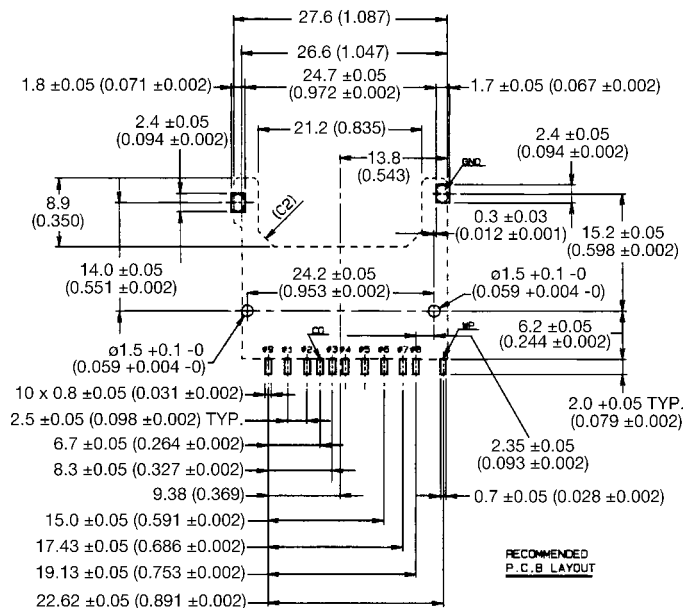


Series 5638 Without Eject Type

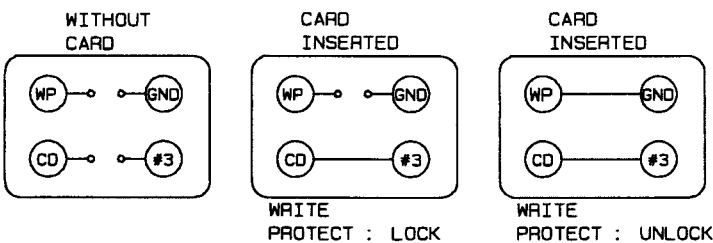
NORMAL



PCB LAYOUT



CIRCUIT



HOW TO ORDER

14 5638 009 211 862

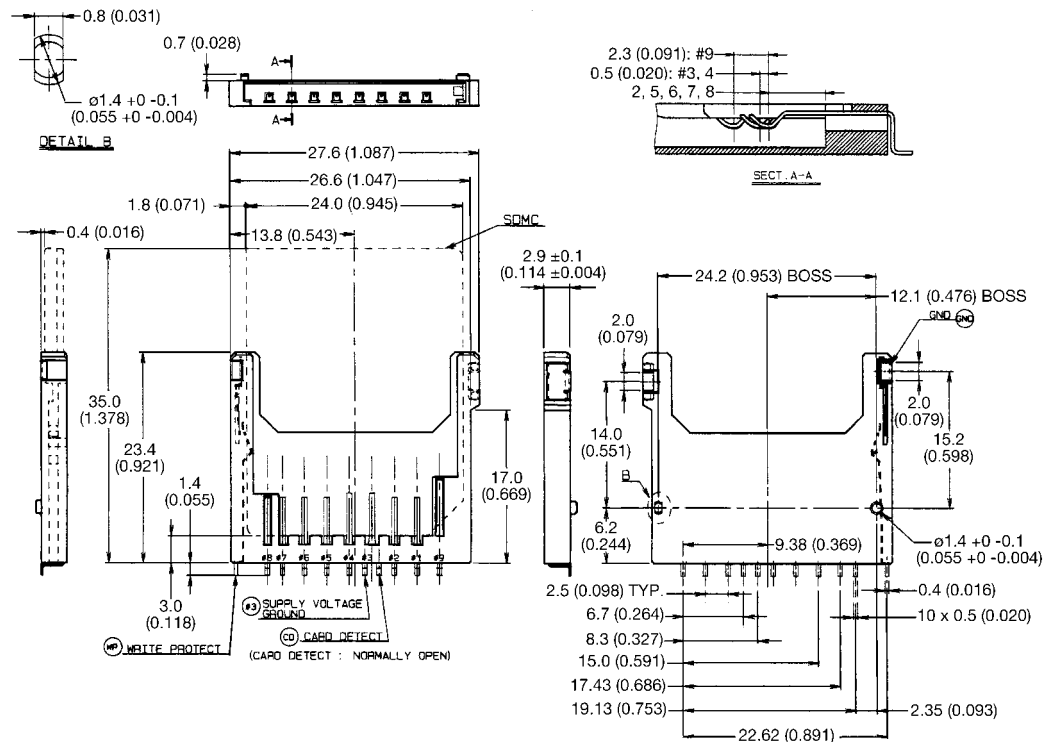
250 pieces per Tape and Reel

Secure Digital Memory Card Connectors

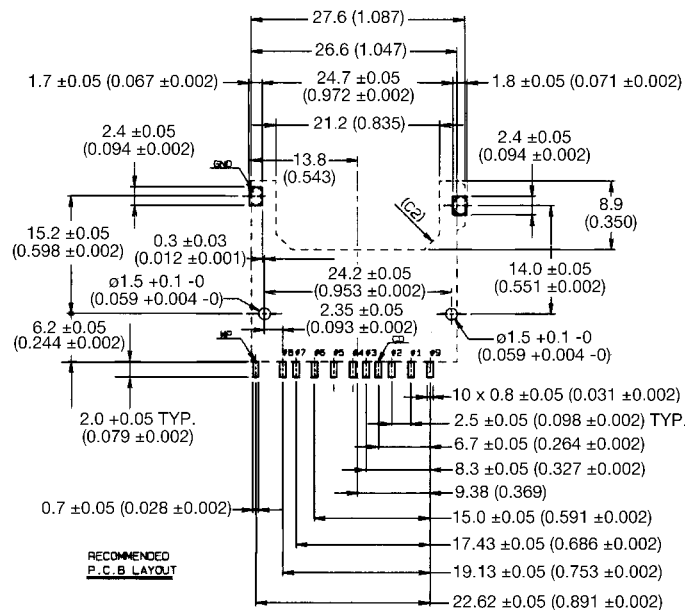


Series 5638 Without Eject Type

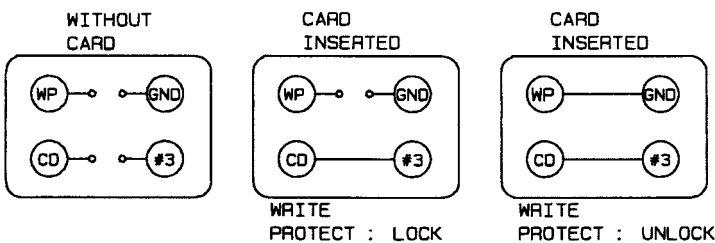
REVERSE



PCB LAYOUT



CIRCUIT



HOW TO ORDER

14 5638 109 211 862

250 pieces per Tape and Reel

S.O. DIMM Connectors



Features/Benefits

SERIES 6401

Series 6401 is a right-angle SMT connector, conforming to JEDEC MO-160 standard of S.O. DIMM.

TECHNICAL SPECIFICATIONS

Application:	RA SMT Plastic Latch	DW Voltage:	500V rms/min.
Pitch:	1.27mm (0.050)	Contact Material:	Phosphor Bronze
Number of Contacts:	72	Insulator Material:	LCP
Height:	5.5mm (0.217)	Operating Temperature:	-55°C~85°C
Current Rating:	0.5A Max.		95% Max.
Voltage Rating:	125V Max.	Standard:	JEDEC MO-160
Mating Cycles	25		

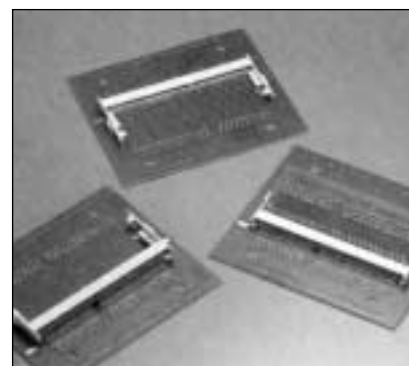


SERIES 6402

Series 6402 is a right-angle SMT connector, conforming to JEDEC standard of 8-byte S.O. DIMM. It is a low cost type connector with plastic latch and has a wide variety of profile height (4.0/5.2/5.6mm). Memory modules are firmly inserted and locked by two simple latches.

TECHNICAL SPECIFICATIONS

Application:	RA SMT Plastic Latch	Voltage Rating:	25V Max.
Pitch:	0.8mm (0.031)	DW Voltage:	1000V rms/min.
Number of Contacts:	144	Contact Material:	Phosphor Bronze
Height:	4.0mm (0.157)	Insulator Material:	LCP
	5.2mm (0.205)	Operating Temperature:	-55°C~85°C
	5.6mm (0.220)		95% Max.
Current Rating:	0.3A Max.	Standard:	JEDEC MO-190
Mating Cycles	25		



SERIES 6403

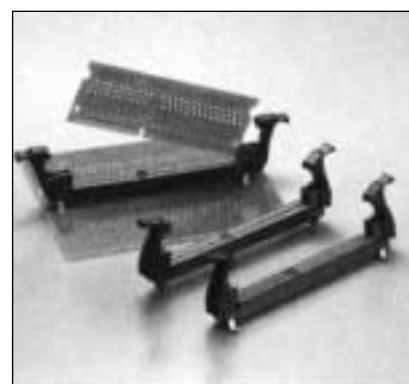
Series 6403 is a 144 positions straight SMT connector conforming to JEDEC standard of 8-byte S.O. DIMM and by both SMT and DIP type (Through Hole type).

(1) SMT and DIP are 3.3V and 5.0V type, respectively. They are also available with and without boss.

(2) SMT type, whose attachment locations of metals on the left and right side are asymmetrically arranged, is equipped with strain reliefs to improve the peeling strength to the board.

TECHNICAL SPECIFICATIONS

Application:	ST SMT/DIP	Contact Material:	Phosphor Bronze
Pitch:	0.8mm (0.031)	Insulator Material:	LCP
Number of Contacts:	144	Operating Temperature:	-55°C~85°C
Current Rating:	0.3A Max.		95% Max.
Voltage Rating:	25V Max.	Standard:	JEDEC MO-190
DW Voltage:	1000V rms/min.		
Mating Cycles	25		

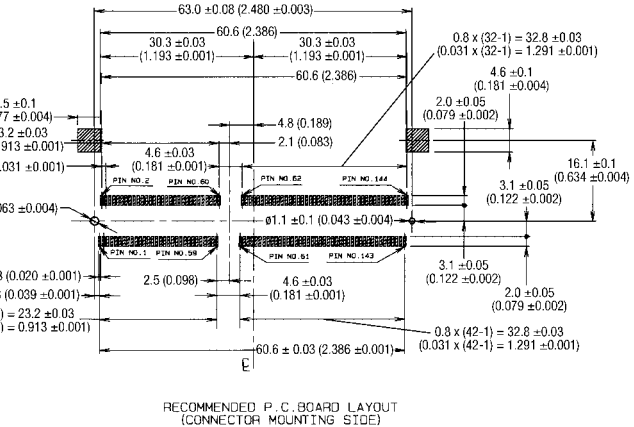
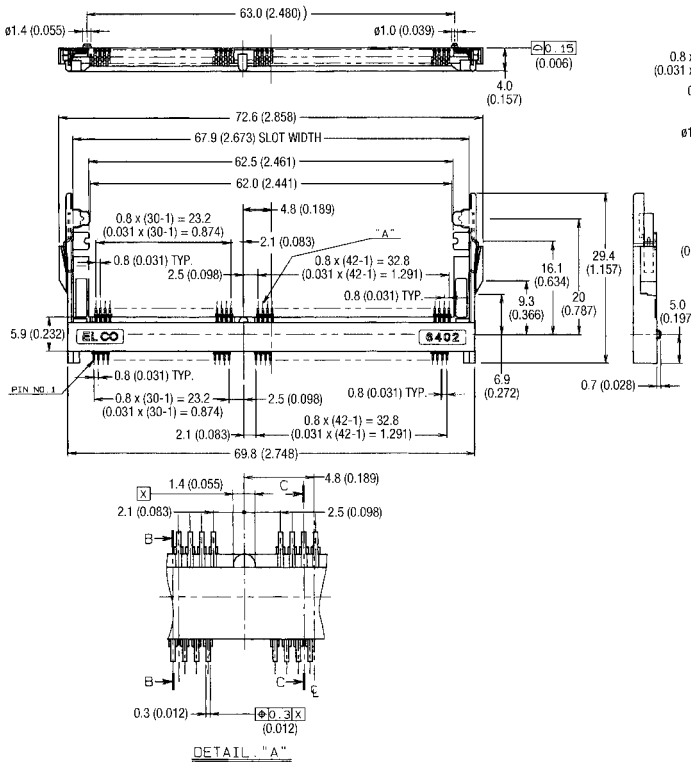


S.O. DIMM Connectors

Series 6402 144P Right Angle SMT with Plastic Latch



H=4.0mm

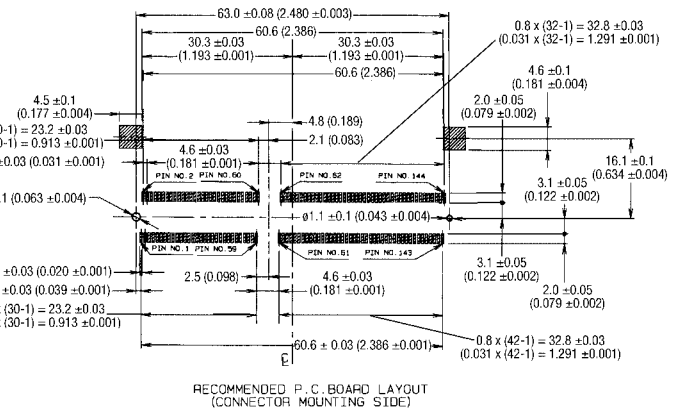
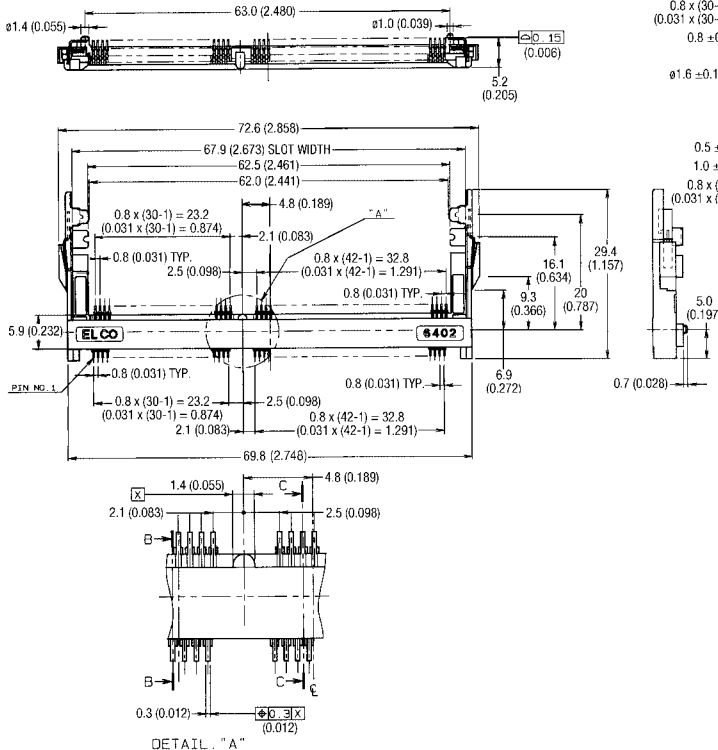


HOW TO ORDER

29 6402 144 000 856

QUANTITY: 20/TRAY
200/BOX

H=5.2mm



HOW TO ORDER

29 6402 144 001 856

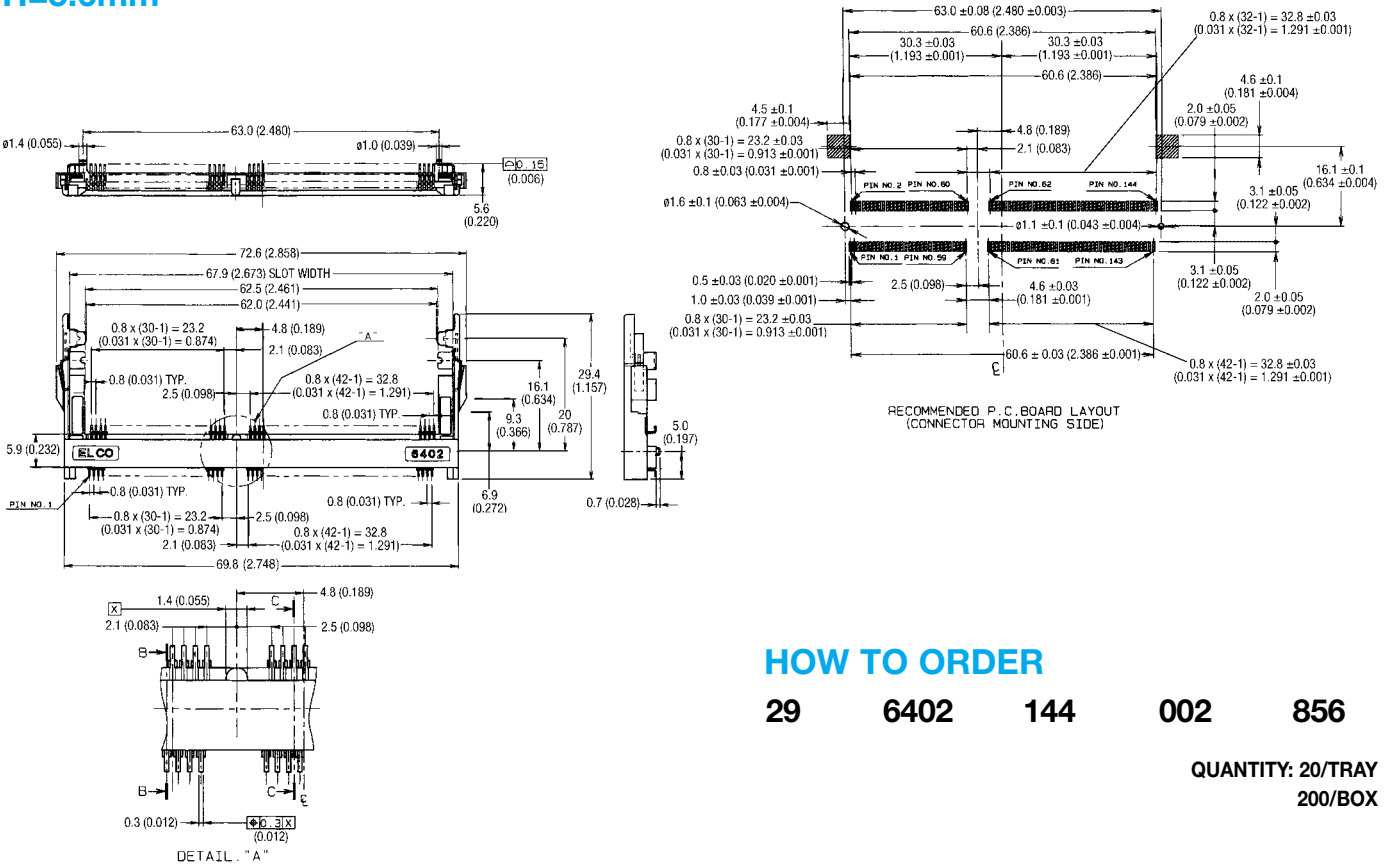
QUANTITY: 20/TRAY
200/BOX

S.O. DIMM Connectors

Series 6402 144P Right Angle SMT with Plastic Latch



H=5.6mm

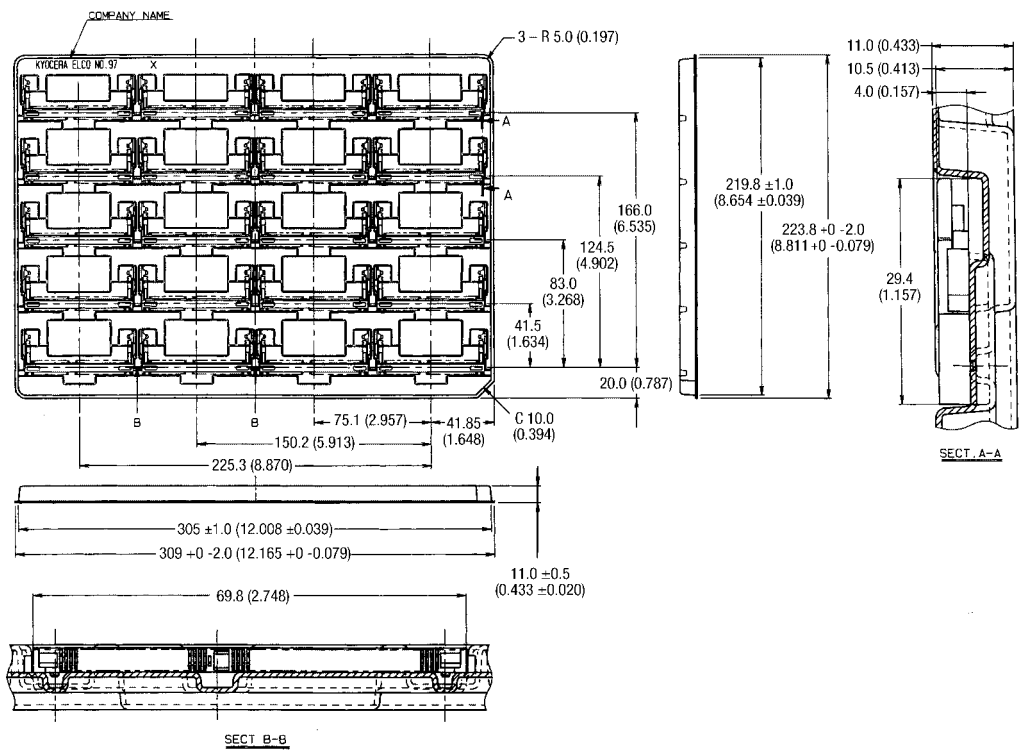


HOW TO ORDER

29 6402 144 002 856

QUANTITY: 20/TRAY
200/BOX

TRAY/PACKAGE

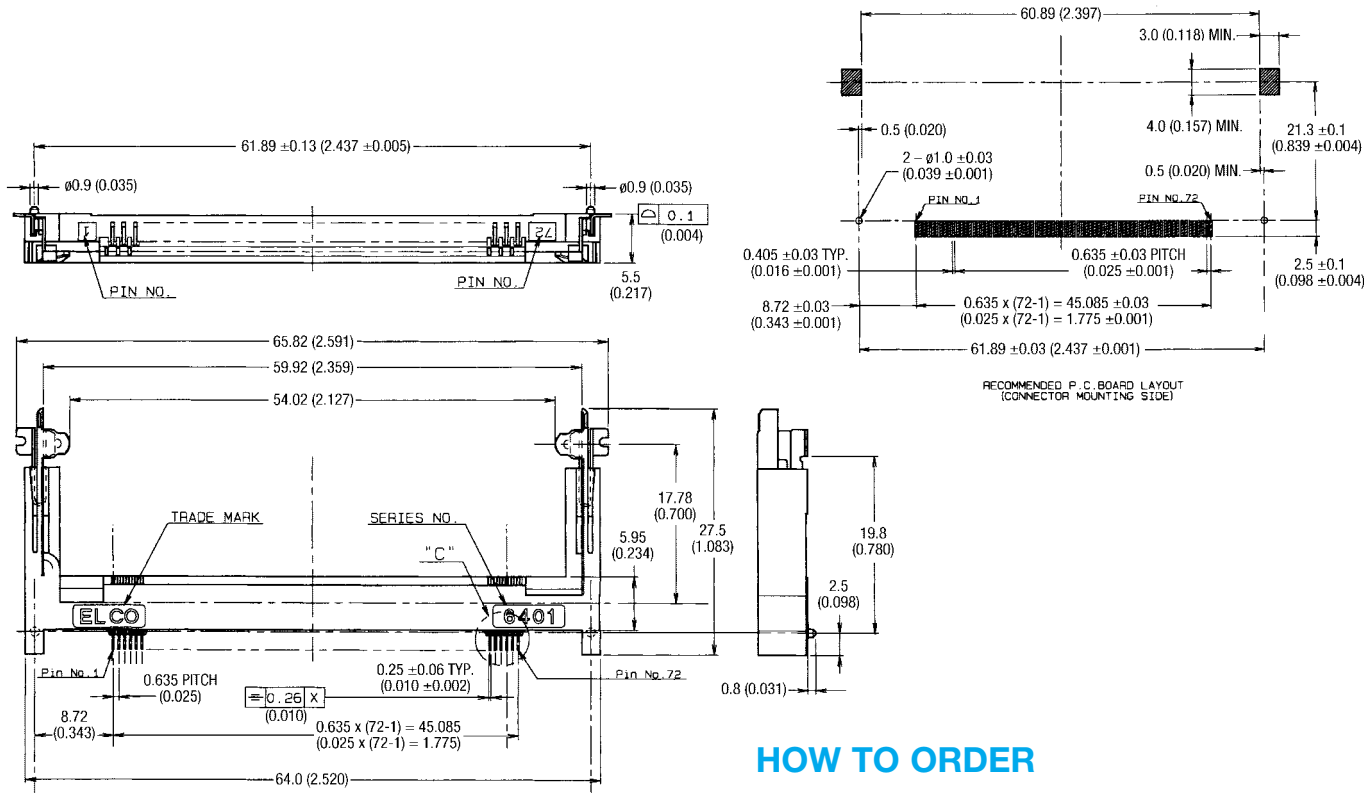


S.O. DIMM Connectors

Series 6401 72P Right Angle SMT



H=5.5mm

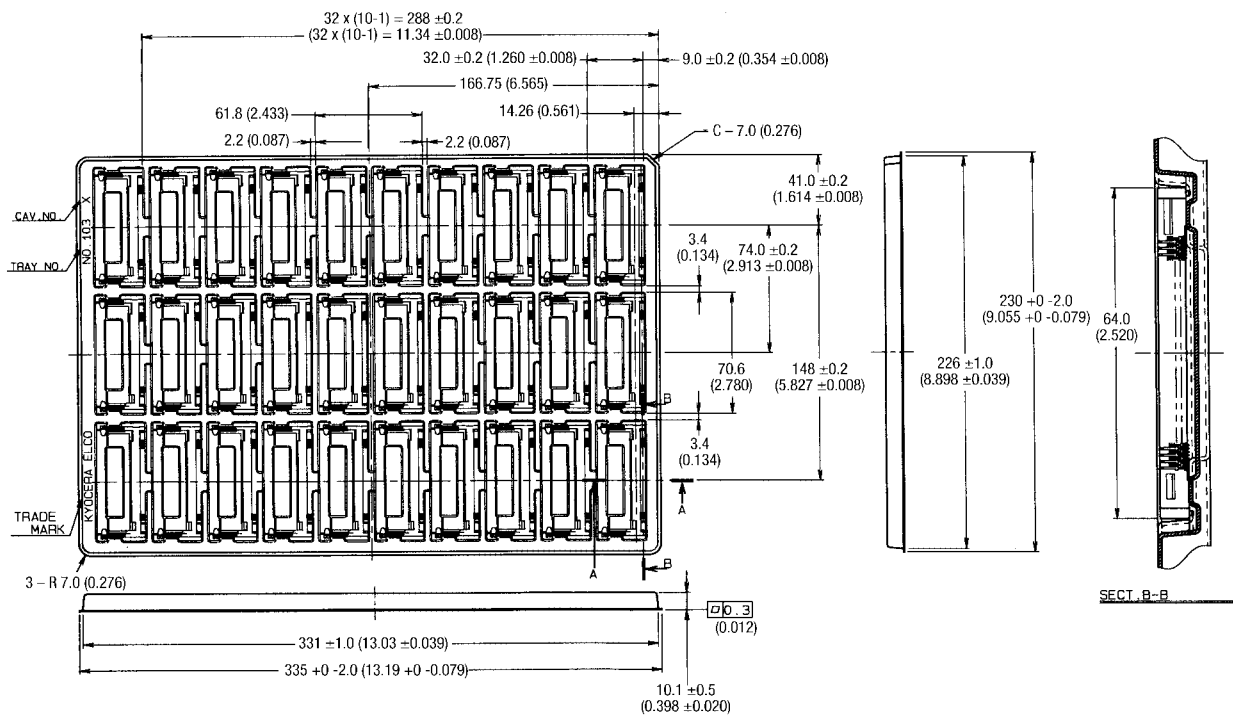


HOW TO ORDER

29 6401 072 001 856

QUANTITY: 30/TRAY
360/BOX

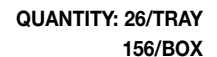
TRAY/PACKAGE



3.3V

The drawing shows the mechanical specifications for the 3.3V package. The top view includes dimensions for the overall length (72.6 ±0.858), width (8.6 ±0.339), and pin pitch (2.5 ±0.098). The side view shows the package height (14.6 ±0.575) and the mounting tab thickness (0.8 ±0.031 TYP.). The bottom view shows the pin locations and dimensions for the pins.

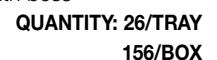
Dimension	Value
Overall Length	72.6 ±0.858
Pin Pitch	2.5 ±0.098
Mounting Tab Thickness	0.8 ±0.031 TYP.
Pin 1 Location	8.6 ±0.339
Pin 2 Location	3.2 ±0.126
Pin 3 Location	14.6 ±0.575
Pin 4 Location	2.1 ±0.083
Pin 5 Location	4.8 ±0.189
Pin 6 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 7 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 8 Location	0.8 ±0.031 TYP.
Pin 9 Location	3.2 ±0.126
Pin 10 Location	8.6 ±0.339
Pin 11 Location	14.6 ±0.575
Pin 12 Location	2.1 ±0.083
Pin 13 Location	4.8 ±0.189
Pin 14 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 15 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 16 Location	0.8 ±0.031 TYP.
Pin 17 Location	3.2 ±0.126
Pin 18 Location	8.6 ±0.339
Pin 19 Location	14.6 ±0.575
Pin 20 Location	2.1 ±0.083
Pin 21 Location	4.8 ±0.189
Pin 22 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 23 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 24 Location	0.8 ±0.031 TYP.
Pin 25 Location	3.2 ±0.126
Pin 26 Location	8.6 ±0.339
Pin 27 Location	14.6 ±0.575
Pin 28 Location	2.1 ±0.083
Pin 29 Location	4.8 ±0.189
Pin 30 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 31 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 32 Location	0.8 ±0.031 TYP.
Pin 33 Location	3.2 ±0.126
Pin 34 Location	8.6 ±0.339
Pin 35 Location	14.6 ±0.575
Pin 36 Location	2.1 ±0.083
Pin 37 Location	4.8 ±0.189
Pin 38 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 39 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 40 Location	0.8 ±0.031 TYP.
Pin 41 Location	3.2 ±0.126
Pin 42 Location	8.6 ±0.339
Pin 43 Location	14.6 ±0.575
Pin 44 Location	2.1 ±0.083
Pin 45 Location	4.8 ±0.189
Pin 46 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 47 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 48 Location	0.8 ±0.031 TYP.
Pin 49 Location	3.2 ±0.126
Pin 50 Location	8.6 ±0.339
Pin 51 Location	14.6 ±0.575
Pin 52 Location	2.1 ±0.083
Pin 53 Location	4.8 ±0.189
Pin 54 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 55 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 56 Location	0.8 ±0.031 TYP.
Pin 57 Location	3.2 ±0.126
Pin 58 Location	8.6 ±0.339
Pin 59 Location	14.6 ±0.575
Pin 60 Location	2.1 ±0.083
Pin 61 Location	4.8 ±0.189
Pin 62 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 63 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 64 Location	0.8 ±0.031 TYP.
Pin 65 Location	3.2 ±0.126
Pin 66 Location	8.6 ±0.339
Pin 67 Location	14.6 ±0.575
Pin 68 Location	2.1 ±0.083
Pin 69 Location	4.8 ±0.189
Pin 70 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 71 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 72 Location	0.8 ±0.031 TYP.
Pin 73 Location	3.2 ±0.126
Pin 74 Location	8.6 ±0.339
Pin 75 Location	14.6 ±0.575
Pin 76 Location	2.1 ±0.083
Pin 77 Location	4.8 ±0.189
Pin 78 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 79 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 80 Location	0.8 ±0.031 TYP.
Pin 81 Location	3.2 ±0.126
Pin 82 Location	8.6 ±0.339
Pin 83 Location	14.6 ±0.575
Pin 84 Location	2.1 ±0.083
Pin 85 Location	4.8 ±0.189
Pin 86 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 87 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291
Pin 88 Location	0.8 ±0.031 TYP.
Pin 89 Location	3.2 ±0.126
Pin 90 Location	8.6 ±0.339
Pin 91 Location	14.6 ±0.575
Pin 92 Location	2.1 ±0.083
Pin 93 Location	4.8 ±0.189
Pin 94 Location	0.8 x (30-1) = 23.2 ±0.031 x (30-1) = 0.913
Pin 95 Location	0.8 x (42-1) = 32.8 ±0.031 x (42-1) = 1.291



5.0V

The figure consists of three views of the 5.0V module:

- Top View:** Shows the module's footprint with dimensions such as 72.6 (2.858) for the central width, 104.2 (4.102) for the total width, and 85.7 (3.374) for the distance between mounting holes. It also shows pin pitch dimensions like 0.8 x (30-1) = 23.2 (0.913) and 0.8 x (42-1) = 32.8 (1.291).
- Side View:** Shows the module's profile with a 30° angle on the mounting flange. Key dimensions include a height of 27.0 (1.063) and a mounting hole offset of 22.7 (0.894).
- MOUNTING LAYOUT:** A detailed view of the module's underside showing the arrangement of pins (PIN NO. 1, PIN NO. 59, PIN NO. 60, PIN NO. 61, PIN NO. 62, PIN NO. 142, PIN NO. 144) and their dimensions. It includes pin pitch dimensions like 0.8 x 29 = 23.2 ± 0.05 and 0.8 x 41 = 32.8 ± 0.05, and overall dimensions for the mounting area.

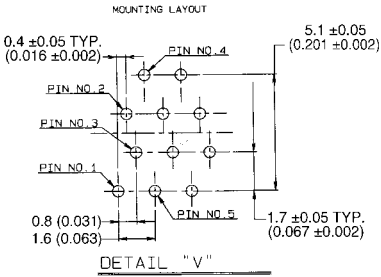
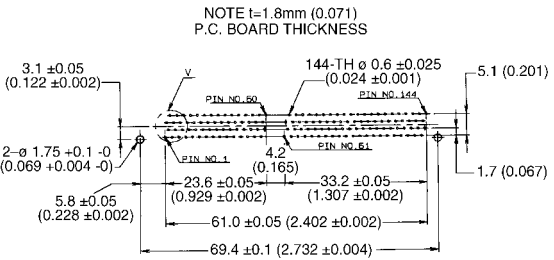
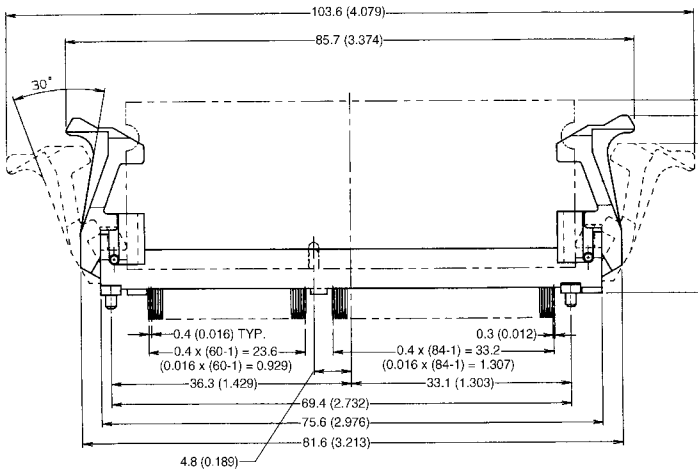
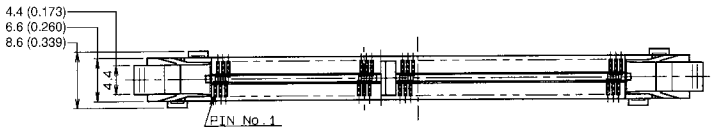


S.O. DIMM Connectors

Series 6403 144P Straight Through Hole Type



3.3V



HOW TO ORDER

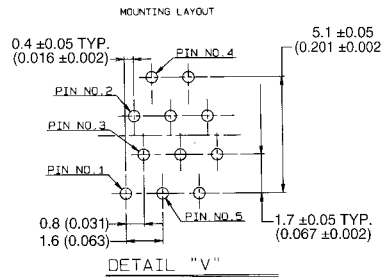
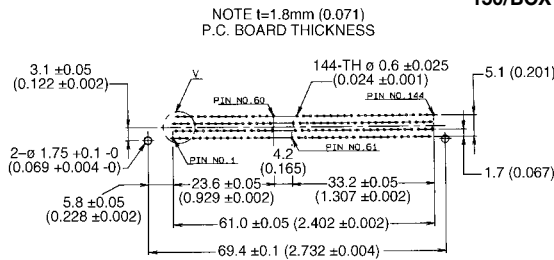
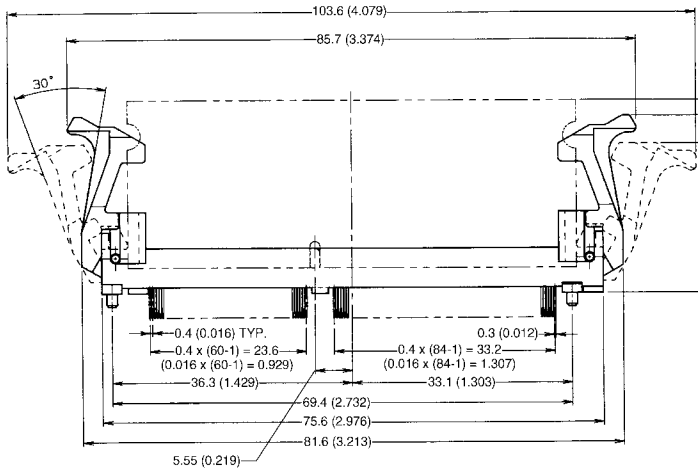
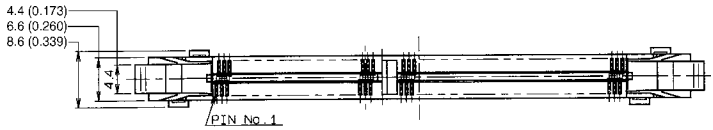
20 6403 144 XXX 856

Variation

ST. Through Hole Type
000: Without boss
001: With boss

QUANTITY: 15/TRAY
150/BOX

5.0V



HOW TO ORDER

20 6403 144 XXX 856

Variation

ST. Through Hole Type
010: Without boss
011: With boss

QUANTITY: 15/TRAY
150/BOX

Notice

The memory board shall be inserted and separated correctly, according to direction and process as shown below.

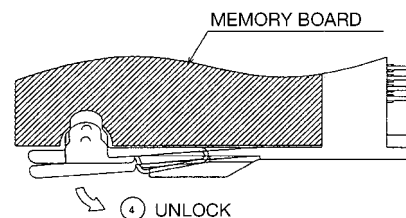
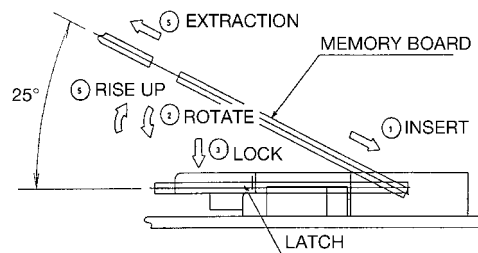
RIGHT ANGLE TYPE (6401/6402)

Method of Insertion

1. The memory board shall be inserted completely.
2. It shall be rotated.
3. It shall be pushed into the latch on both sides from upward.

Method of Separation

4. The latch on both sides shall be unlocked.
5. After the memory board rises, it shall be extracted.



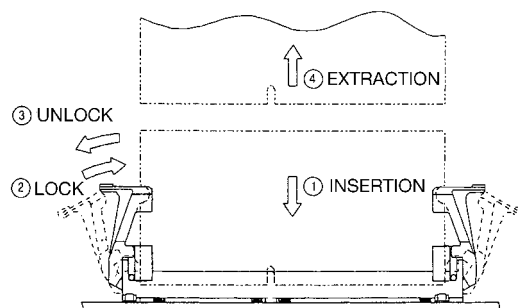
STRAIGHT TYPE (6403)

Method of Insertion

1. The lever on both sides shall be unlocked and memory board shall be inserted.
2. The memory board shall be inserted even the latch on both sides shall be locked.

Method of Separation

3. The lever on both sides shall be unlocked.
4. The memory board shall be extracted.



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Insulation Displacement Connectors
I/O Connectors
Memory Card Headers and Sockets
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Battery Connectors
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Torson, 1.27mm (.050") Board to
Board Connectors
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