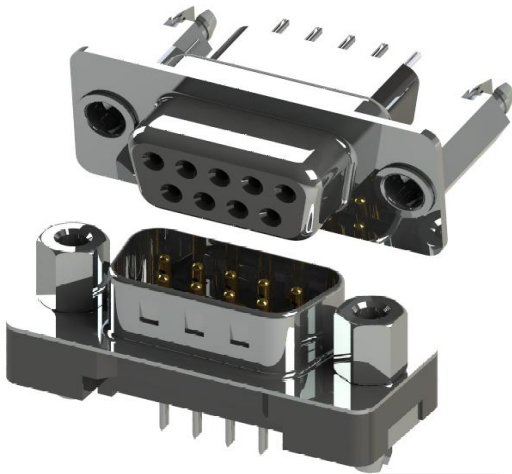




SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Plastic Body*

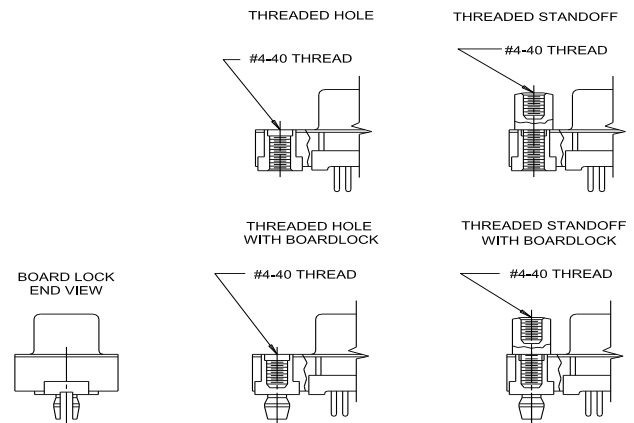


- Low Profile Only
- .109"(2.77mm) Contact Spacing x .112"(2.84mm) Row Spacing
- Plug and Receptacle in 9, 15, 25 and 37 Contact Sizes
- Pin and Socket Contact Mating Design with P.C. Tail Termination
- Metal Shell Provides EMI/RFI Shielding, Plug Shell Indents provide Grounding and Additional Mating Retention
- Grounding Feature include Boardlock for Exceptional Retention to P.C. Board
- Flange Mounting Options for Panel Mount or Connector Mating include Threaded Hole and Threaded Standoff
- D-Shaped Connector Mating Outline provides Polarization
- Design based on Requirements of MIL-C-24038, EIA RS-232 and RS-449
- IDC Type - Contact Customer Service at customerservice@edac.net
- High Temp Insulator - Contact Customer Service at customerservice@edac.net

Specifications:

Insulator Material	Thermoplastic Polyester, UL 94V-0, Chemical Resistant, Color: Black
Contact Material	Plug (Pins): Brass Receptacle (Socket): Brass
Contact Plating	Selective Gold (See Ordering Code) over Nickel for the Mating Area, Tin Plating for Tail Area
Ferrite Specs:	20dB MIN @30 MHz, 30dB MIN @50 MHz, and 50dB MIN @100 MHz
Shell Material	Nickel Plated Steel (Optional Tin Plating)
Current Rating	3A Per Contact
Contact Resistance	25 Milliohms MAX
Insulation Resistance	5000 Megaohms MIN
Dielectric Voltage	1000V AC rms at Sea Level
Operating Temp.	-55°C To +85°C
Mating Force	16 oz (4.45N) Maximum Per Contact Position
Unmating Force	1 oz (0.28N) Minimum Per Contact Position

FLANGE MOUNTING OPTIONS



Ordering Code:

627-025-220-013

SERIES: _____
627: PLUG (PIN)
628: RECEPTACLE (SOCKET)

NO. OF CONTACTS: _____
009 - 9 CONTACTS 025 - 25 CONTACTS
015 - 15 CONTACTS 037 - 37 CONTACTS

CONTACT FINISH CODE: _____
2 - GOLD FLASH PLATING
3 - 15 MICROINCHES OF GOLD PLATING
6 - 30 MICROINCHES OF GOLD PLATING

CONTACT CODE: _____
20 - .105"(2.67mm) TO .160"(4.06mm) PC TAIL
24 - .169"(4.30mm) TO .189"(4.80mm) PC TAIL
26 - PRESS FIT CONTACT
27 - IDC

FLANGE MOUNTING OPTIONS:
2 - #4-40 THREADED HOLE
3 - #4-40 THREADED STANDOFF
6 - #4-40 THREADED HOLE WITH BOARDLOCKS
7 - #4-40 THREADED STANDOFF WITH BOARDLOCKS

PROFILE:
1 - LOW PROFILE

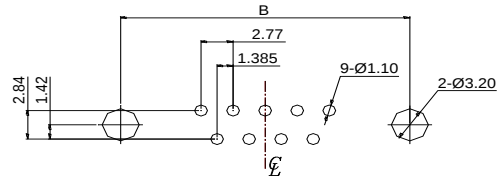
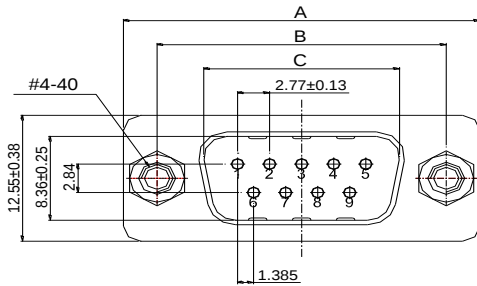
MATERIAL CODE:
0 - STANDARD



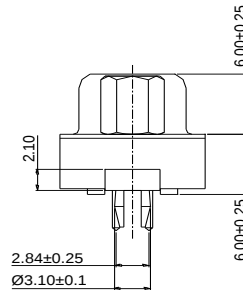
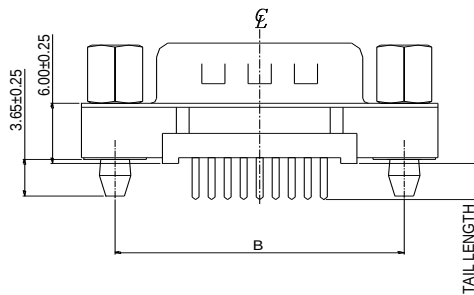
SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Plastic Body*

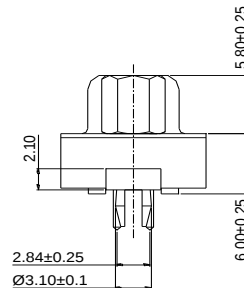
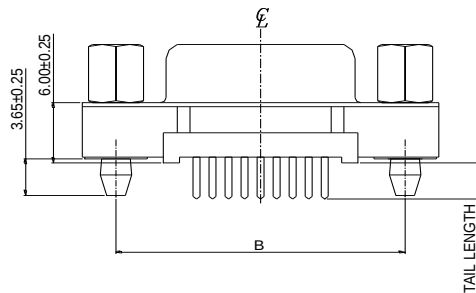
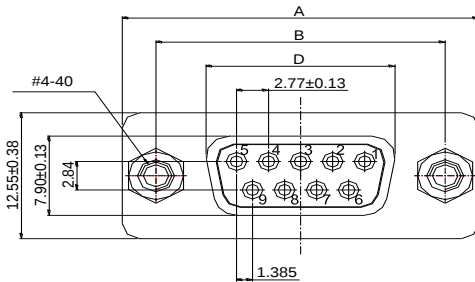
PLUG 627 SERIES



Recommended PCB Layout
(Plug and Receptacle)



RECEPTACLE 628 SERIES

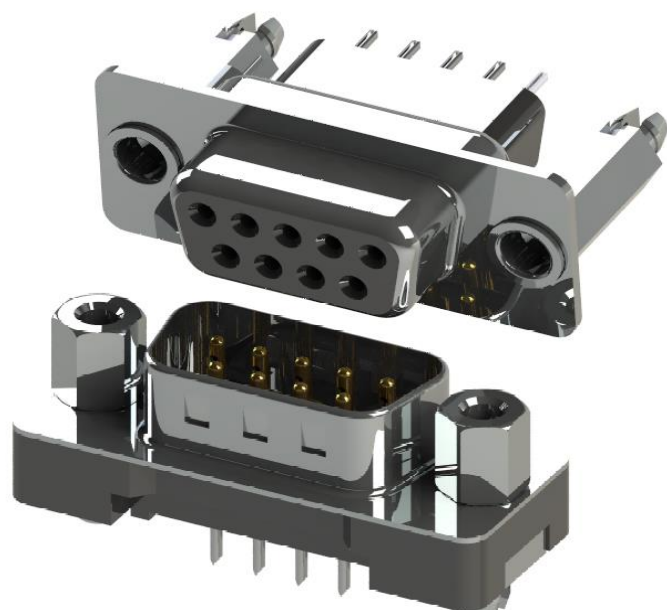


NUMBER OF CONTACTS	A±0.38		B±0.25		C±0.25 PLUG		D±0.13 RECEPTACLE	
	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)
9	1.213	(30.81)	.984	(24.99)	.666	(16.92)	.643	(16.33)
15	1.543	(39.19)	1.312	(33.32)	.994	(25.25)	.971	(24.66)
25	2.088	(53.04)	1.852	(47.04)	1.534	(38.96)	1.534	(38.96)
37	2.729	(69.32)	2.500	(63.50)	2.182	(55.42)	2.159	(54.84)



SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Metal Body*

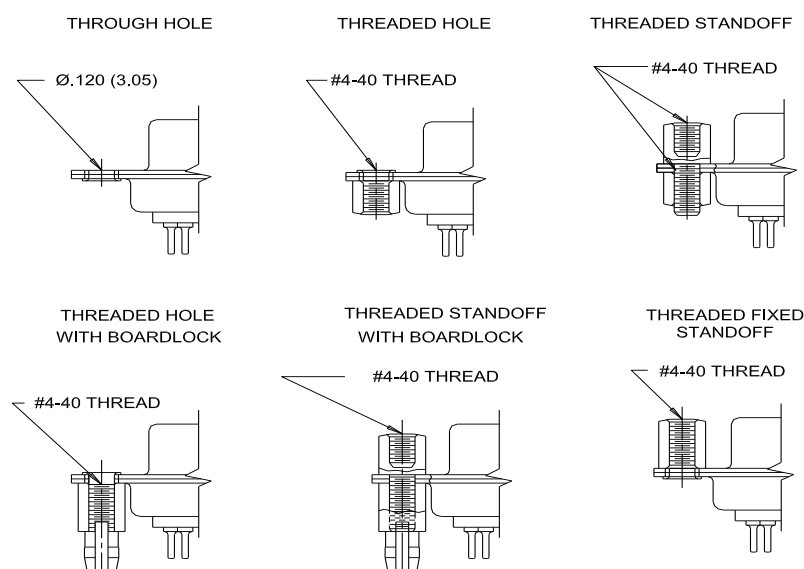


- Both Low and High Profiles are available
- .109"(2.77mm) Contact Spacing x .112"(2.84mm) Row Spacing
- Plug and Receptacle in 9, 15, 25, 37 or 50 Contact Sizes
- Pin and Socket Contact Mating Design with P.C. Tail Termination
- Metal Shell Provides EMI/RFI Shielding, Plug Shell Indents provide Grounding and Additional Mating Retention
- Grounding Feature include Boardlock for Exceptional Retention to P.C. Board
- Mounting Options for Panel Mount or Connector Mating include Through Hole, Threaded Hole and Threaded Standoffs
- D-Shaped Connector Mating Outline provides Polarization
- Design based on Requirements of MIL-C-24038, EIA RS-232 and RS-449
- IDC Type - Contact Customer Service at customerservice@edac.net

Specifications:

Insulator Material	Thermoplastic Polyester, UL 94V-0, Chemical Resistant, Color: Black
Contact Material	Plug (Pins): Brass Receptacle (Socket): Brass
Contact Plating	Selective Gold (See Ordering Code) over Nickel for the Mating Area, Tin Plating for Tail Area
Ferrite Specs:	20dB MIN @30 MHz, 30dB MIN @50 MHz, and 50dB MIN @100 MHz
Shell Material	Nickel Plated Steel (Optional Tin Plating)
Current Rating	3A - 5A Per Contact
Contact Resistance	25 Milliohms MAX
Insulation Resistance	1000 Megaohms MIN
Dielectric Voltage	1000V AC rms at Sea Level
Operating Temp.	-55°C To +85°C
Mating Force	16 oz (4.45N) Maximum Per Contact Position
Unmating Force	1 oz (0.28N) Minimum Per Contact Position

FLANGE MOUNTING OPTIONS



Ordering Code:

627-025-220-043

SERIES:
627: PLUG (PIN)
628: RECEPTACLE (SOCKET)

NO. OF CONTACTS:
009 - 9 CONTACTS 025 - 25 CONTACTS
015 - 15 CONTACTS 037 - 37 CONTACTS
050 - 50 CONTACTS (LOW PROFILE ONLY)

CONTACT FINISH CODE:
2 - GOLD FLASH PLATING
3 - 15 MICROINCHES OF GOLD PLATING
6 - 30 MICROINCHES OF GOLD PLATING

TERMINATION:
010 - CRIMP AND LOAD (CABLE ASSEMBLY)

CONTACT CODE:
20 - LOW PROFILE:
0.189"± 0.020" (4.80±0.50mm) PC TAIL (PLUG ONLY)
0.181"± 0.020" (4.60±0.50mm) PC TAIL (RECEPTACLE ONLY)
21 - HIGH PROFILE:
0.122"± 0.015" (3.10±0.38mm) PC TAIL (PLUG ONLY)
0.165"± 0.015" (4.20±0.38mm) PC TAIL (RECEPTACLE ONLY)
22 - SOLDER CUP
26 - PRESS FIT CONTACT
28 - 0.110" (2.80mm) PC TAIL WITH FERRITE FILTER

FLANGE MOUNTING OPTIONS:
0 - NO CONTACTS (CRIMP AND LOAD ONLY)
1 - Ø.120" (Ø3.05MM) THROUGH HOLE
2 - #4-40 THREADED HOLE
3 - #4-40 THREADED STANDOFF
6 - #4-40 THREADED HOLE WITH BOARDLOCKS
7 - #4-40 THREADED STANDOFF WITH BOARDLOCKS
8 - #4-40 THREADED FIXED STANDOFF

GROUNDING FEATURE: CRIMP AND LOAD TERMINATION ONLY:
4 - LOW PROFILE 0 - NO HARDWARE
5 - HIGH PROFILE 1 - .098" (2.49mm) CLINCH NUT (BOARDSIDE)
 2 - .236" (6.00mm) CLINCH NUT (BOARDSIDE)
 3 - .236" (6.00mm) CLINCH NUT (MATING SIDE)

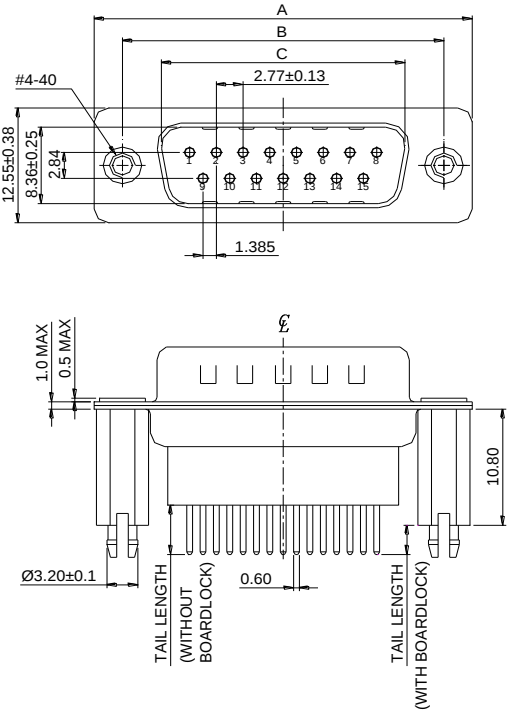
MATERIAL CODE: CRIMP AND LOAD TERMINATION ONLY:
0 - STANDARD 2 - TIN PLATED SHELL
5 - HIGH TEMP INSULATOR 3 - NICKEL PLATED SHELL



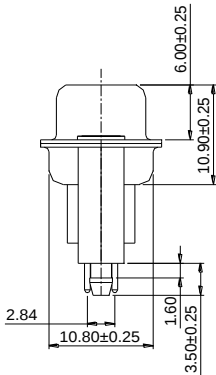
SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Metal Body*

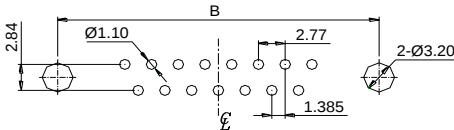
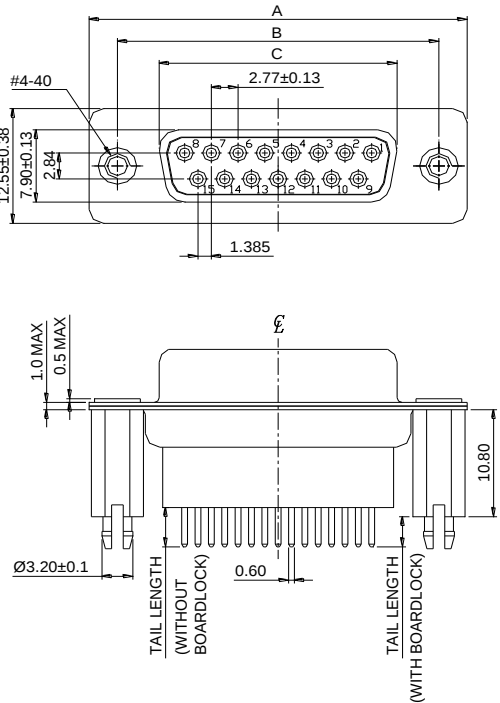
PLUG 627 SERIES



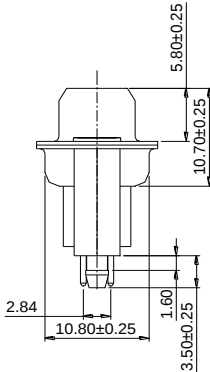
NUMBER OF CONTACTS	A±0.38		B±0.25		C±0.13 PLUG		C±0.13 RECEPTACLE	
	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)
9	1.213	(30.81)	.984	(24.99)	.666	(16.92)	.643	(16.33)
15	1.543	(39.19)	1.312	(33.32)	.994	(25.25)	.971	(24.66)
25	2.088	(53.04)	1.852	(47.04)	1.534	(38.96)	1.511	(38.38)
37	2.729	(69.32)	2.500	(63.50)	2.182	(55.42)	2.159	(54.84)



RECEPTACLE 628 SERIES



RECOMMENDED P.C.B LAYOUT FOR PLUG AND RECEPTACLE

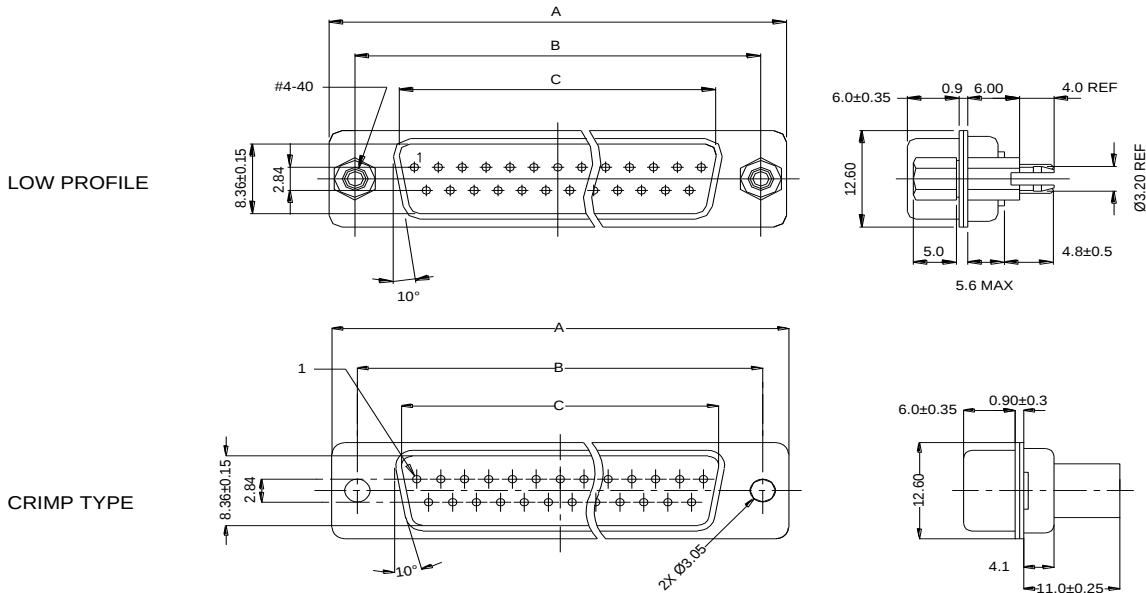




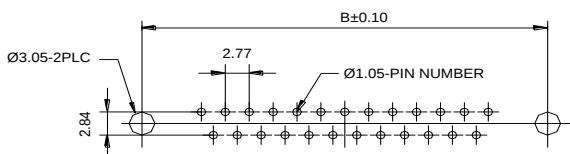
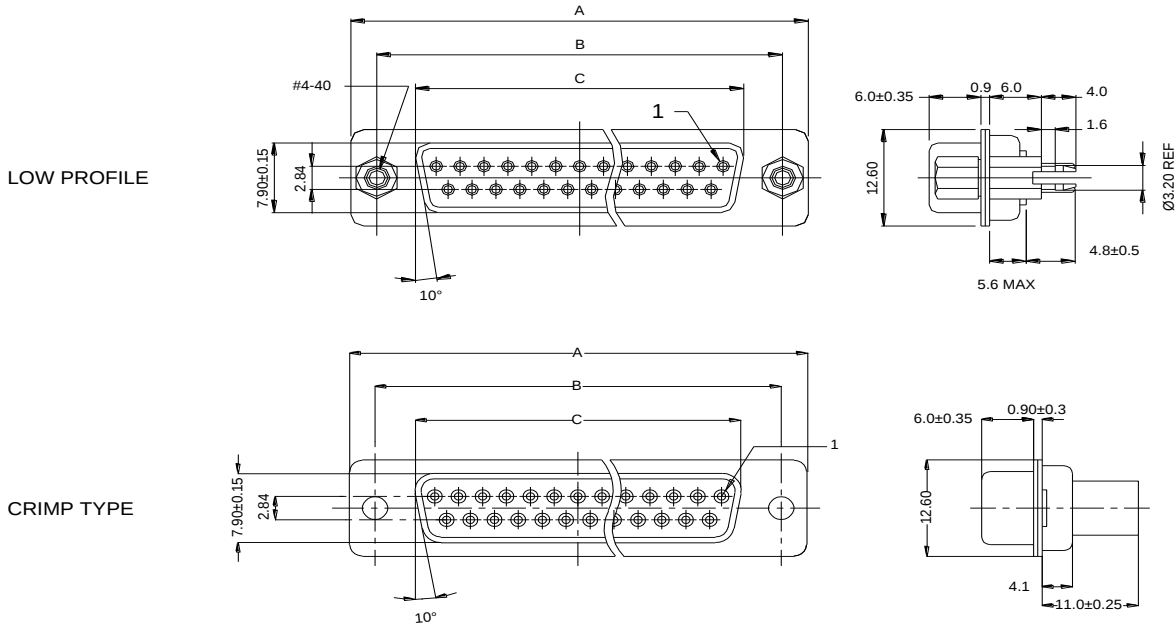
SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Metal Body*

PLUG 627 SERIES



RECEPTACLE 628 SERIES



Recommended PCB Layout
(Plug and Receptacle)

NUMBER OF CONTACTS	A±0.35		B±0.10		C±0.15 PLUG		C±0.15 RECEPTACLE	
	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)
9	1.213	(30.80)	.984	(24.99)	.666	(16.92)	.642	(16.30)
15	1.541	(39.15)	1.312	(33.32)	.994	(25.25)	.970	(24.65)
25	2.087	(53.00)	1.852	(47.04)	1.534	(38.96)	1.512	(38.40)
37	2.728	(69.30)	2.500	(63.50)	2.182	(55.42)	2.157	(54.80)
50	2.638	(67.00)	2.402	(61.00)	2.079	(52.80)	2.055	(52.20)