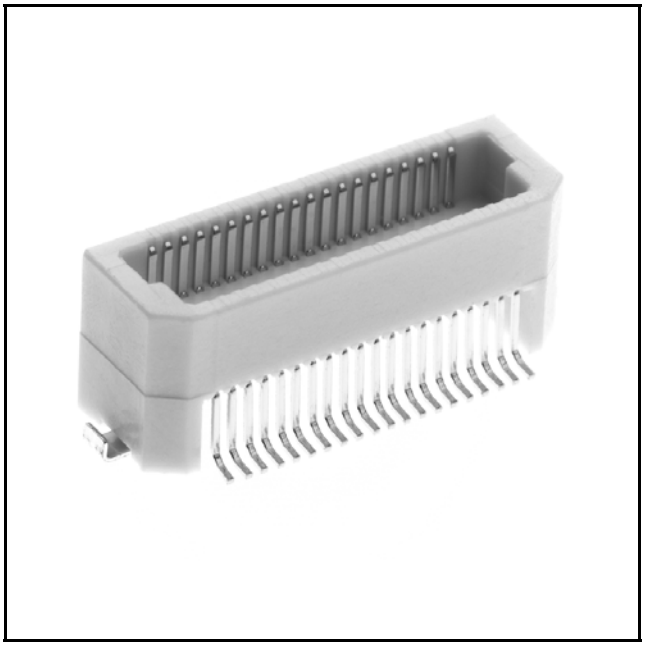
3M™ Pak 5 Socket

0.5 mm Straight Stacking, Surface Mount

PK5 Series



- 0.5 mm pitch high density connector conserves board space
- Mated heights available from 4 to 8 mm
- Surface mount design allows for easy inspection and repair of solder joints
- Tape and reel packaging available
- RoHS* compliant

Date Modified: July 10, 2006

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Physical

Insulation	
Material:	Glass filled LCP
Flammability:	UL 94V-0
Color:	White
Contact	
Material:	Copper Alloy
Plating	
Underplating:	Nickel
Wiping Area:	2 μ″ [0.05 μm] min. Gold over Nickel
Solder Tails:	Gold over Nickel

Electrical

Current Rating:	0.3 A
Insulation Resistance:	10^3 MΩ min at 250 VDC
Withstanding Voltage:	200 VAC for 1 minute

Environmental

Temperature Rating:	-55°C to +85°C
Process Rating:	260°C (per J-STD-020C)

* RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment "RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

3M™ Pak 5 Socket

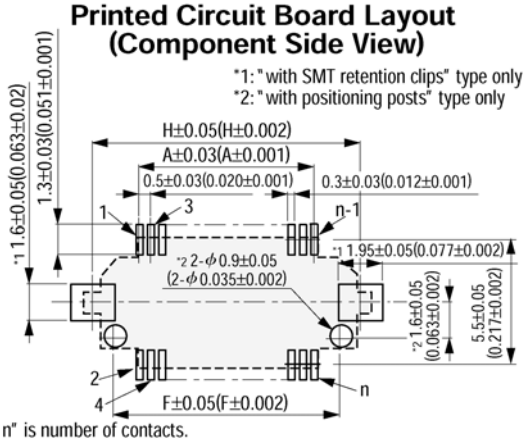
0.5 mm Straight Stacking, Surface Mount PK5 Series

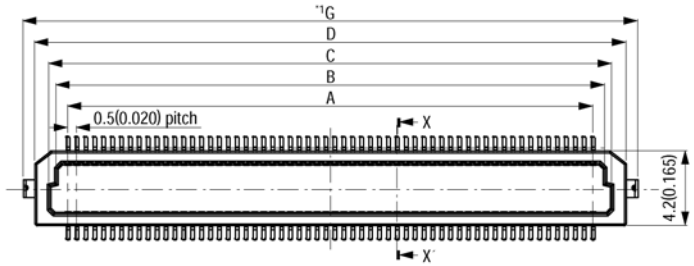
Socket for 4 and 6 mm stacked height.

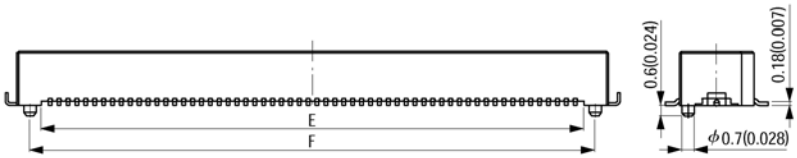
Product Table / Dimensions

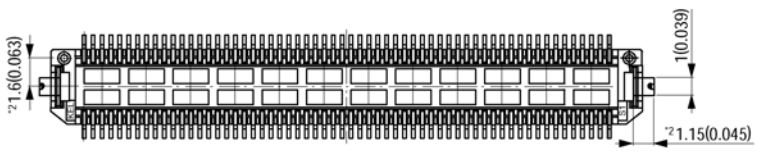
Contact Quantity	A	B	C	D	E	F	G	H
40	9.50	10.82	11.62	13.22	10.50	11.76	14.54	13.59
	[0.374]	[0.426]	[0.457]	[0.520]	[0.413]	[0.463]	[0.572]	[0.535]
50	12.00	13.32	14.12	15.72	13.00	14.26	17.04	16.09
	[0.472]	[0.524]	[0.556]	[0.619]	[0.512]	[0.561]	[0.671]	[0.633]
60	14.50	15.82	16.62	18.22	15.50	16.76	19.54	18.59
	[0.571]	[0.623]	[0.654]	[0.717]	[0.610]	[0.660]	[0.769]	[0.732]
80	19.50	20.82	21.62	23.22	20.50	21.76	24.54	23.59
	[0.768]	[0.820]	[0.851]	[0.914]	[0.807]	[0.857]	[0.966]	[0.929]
100	24.50	25.82	26.62	28.22	25.50	26.76	29.54	28.59
	[0.965]	[1.017]	[1.048]	[1.111]	[1.004]	[1.054]	[1.163]	[1.126]
120	29.50	30.82	31.62	33.22	30.50	31.76	34.54	33.59
	[1.161]	[1.213]	[1.245]	[1.308]	[1.201]	[1.250]	[1.360]	[1.322]
140	34.50	35.82	36.62	38.22	35.50	36.76	39.54	38.59
	[1.358]	[1.410]	[1.442]	[1.505]	[1.398]	[1.447]	[1.557]	[1.519]
160	39.50	40.82	41.62	43.22	40.50	41.76	44.54	43.59
	[1.555]	[1.607]	[1.639]	[1.702]	[1.594]	[1.644]	[1.754]	[1.716]

Printed Circuit Board Layout (Component Side View)

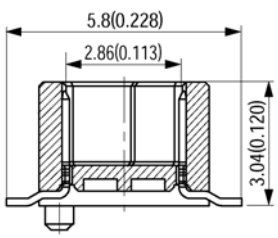








X-X´ Cross Section



For technical, sales or ordering information call
800-225-5373

3M™ Pak 5 Socket

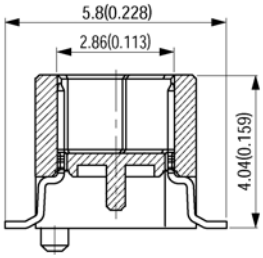
0.5 mm Straight Stacking, Surface Mount — PK5 Series

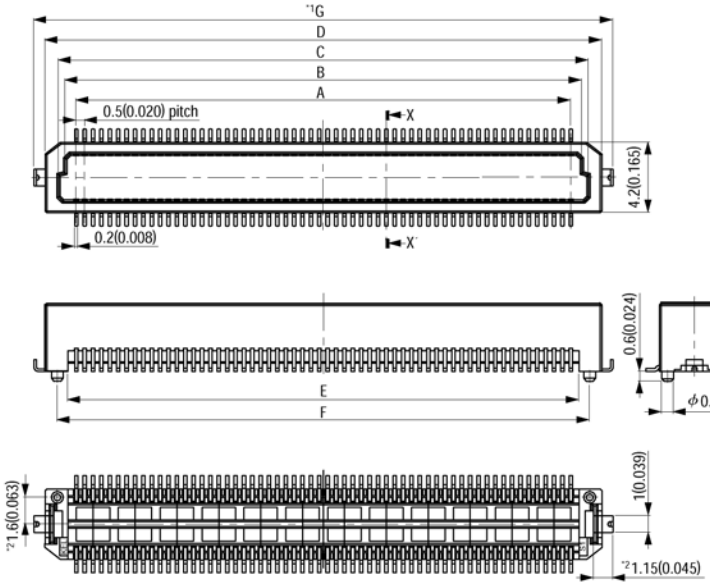
Socket for 5 and 7 mm stacked height.

Product Table / Dimensions

Contact Quantity	A	B	C	D	E	F	G	H
40	9.50	10.82	11.62	13.22	10.50	11.76	14.54	13.59
	[0.374]	[0.426]	[0.457]	[0.520]	[0.413]	[0.463]	[0.572]	[0.535]
50	12.00	13.32	14.12	15.72	13.00	14.26	17.04	16.09
	[0.472]	[0.524]	[0.556]	[0.619]	[0.512]	[0.561]	[0.671]	[0.633]
60	14.50	15.82	16.62	18.22	15.50	16.76	19.54	18.59
	[0.571]	[0.623]	[0.654]	[0.717]	[0.610]	[0.660]	[0.769]	[0.732]
80	19.50	20.82	21.62	23.22	20.50	21.76	24.54	23.59
	[0.768]	[0.820]	[0.851]	[0.914]	[0.807]	[0.857]	[0.966]	[0.929]
100	24.50	25.82	26.62	28.22	25.50	26.76	29.54	28.59
	[0.965]	[1.017]	[1.048]	[1.111]	[1.004]	[1.054]	[1.163]	[1.126]
120	29.50	30.82	31.62	33.22	30.50	31.76	34.54	33.59
	[1.161]	[1.213]	[1.245]	[1.308]	[1.201]	[1.250]	[1.360]	[1.322]
140	34.50	35.82	36.62	38.22	35.50	36.76	39.54	38.59
	[1.358]	[1.410]	[1.442]	[1.505]	[1.398]	[1.447]	[1.557]	[1.519]
160	39.50	40.82	41.62	43.22	40.50	41.76	44.54	43.59
	[1.555]	[1.607]	[1.639]	[1.702]	[1.594]	[1.644]	[1.754]	[1.716]

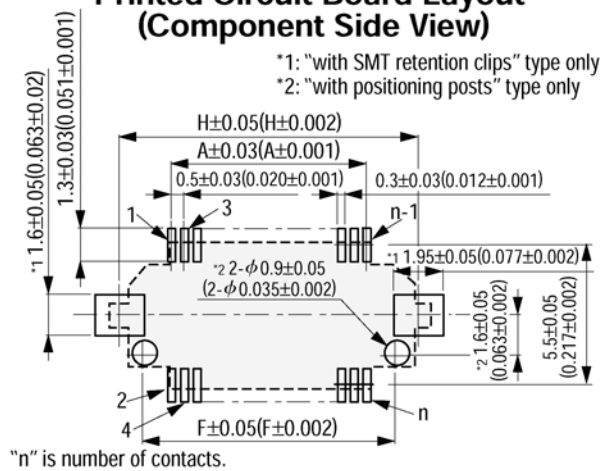
X-X´ Cross Section





Printed Circuit Board Layout (Component Side View)

*1: "with SMT retention clips" type only
*2: "with positioning posts" type only



"n" is number of contacts.

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For technical, sales or ordering information call
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3M™ Pak 5 Socket

0.5 mm Straight Stacking, Surface Mount — PK5 Series

Socket for 6 and 8 mm stacked height.

Product Table / Dimensions

Contact Quantity	A	B	C	D	E	F	G	H
40	9.50	10.82	11.62	13.22	10.50	11.76	14.54	13.59
	[0.374]	[0.426]	[0.457]	[0.520]	[0.413]	[0.463]	[0.572]	[0.535]
50	12.00	13.32	14.12	15.72	13.00	14.26	17.04	16.09
	[0.472]	[0.524]	[0.556]	[0.619]	[0.512]	[0.561]	[0.671]	[0.633]
60	14.50	15.82	16.62	18.22	15.50	16.76	19.54	18.59
	[0.571]	[0.623]	[0.654]	[0.717]	[0.610]	[0.660]	[0.769]	[0.732]
80	19.50	20.82	21.62	23.22	20.50	21.76	24.54	23.59
	[0.768]	[0.820]	[0.851]	[0.914]	[0.807]	[0.857]	[0.966]	[0.929]
100	24.50	25.82	26.62	28.22	25.50	26.76	29.54	28.59
	[0.965]	[1.017]	[1.048]	[1.111]	[1.004]	[1.054]	[1.163]	[1.126]
120	29.50	30.82	31.62	33.22	30.50	31.76	34.54	33.59
	[1.161]	[1.213]	[1.245]	[1.308]	[1.201]	[1.250]	[1.360]	[1.322]
140	34.50	35.82	36.62	38.22	35.50	36.76	39.54	38.59
	[1.358]	[1.410]	[1.442]	[1.505]	[1.398]	[1.447]	[1.557]	[1.519]
160	39.50	40.82	41.62	43.22	40.50	41.76	44.54	43.59
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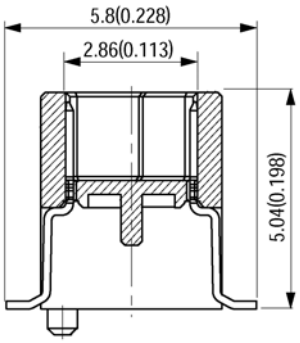
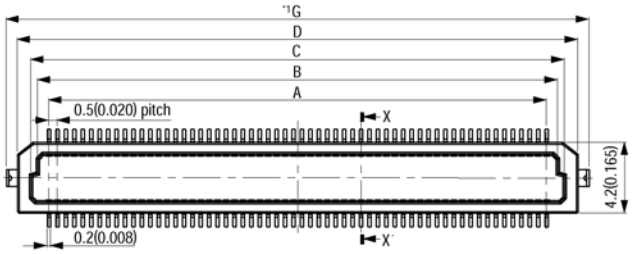
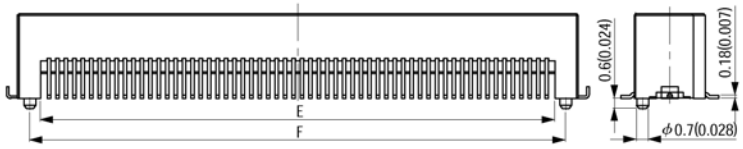
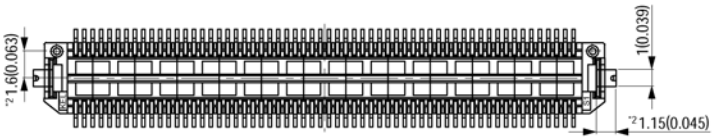
X-X´ Cross Section



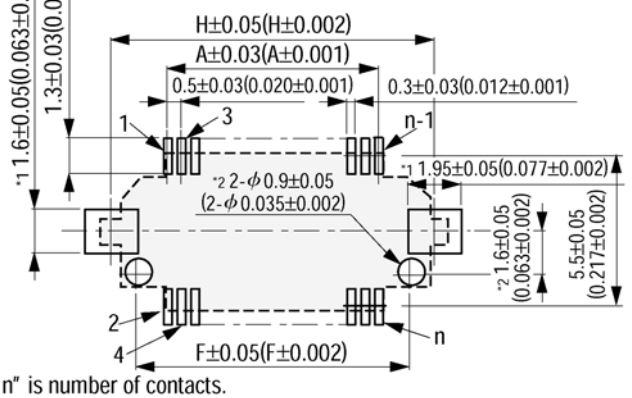






Printed Circuit Board Layout (Component Side View)

*1: "with SMT retention clips" type only
*2: "with positioning posts" type only



"n" is number of contacts.

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Sheet 4 of 5

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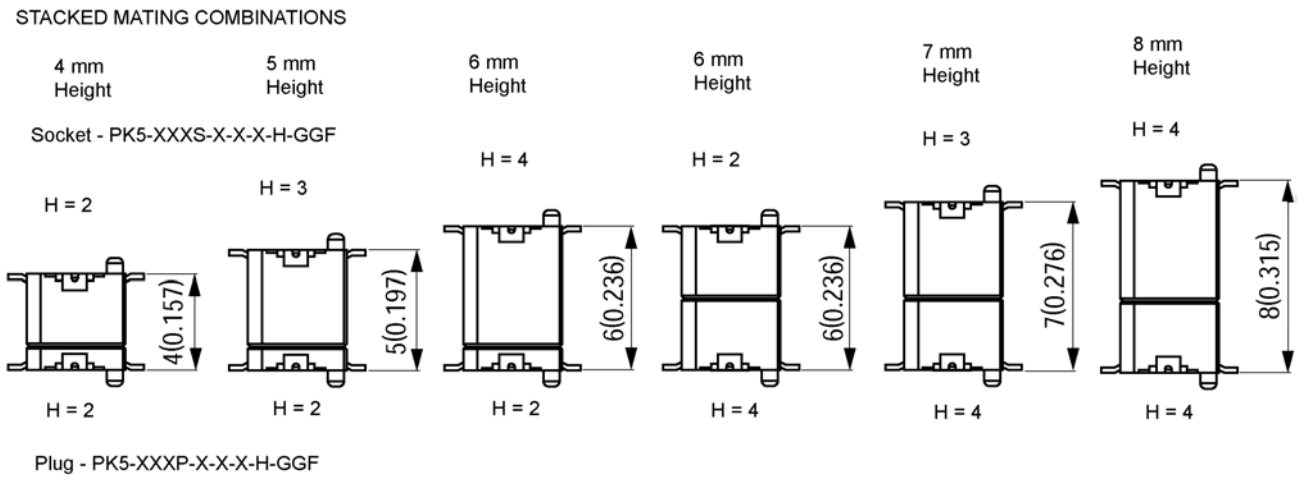
3M™ Pak 5 Socket

0.5 mm Straight Stacking, Surface Mount PK5 Series



Ordering Information

PK5 - XXXS - X - X - X - X - GGF

- Contact Quantity — See Table
- C = With Retention Clips (Tape and Reel only); Omit = Without Clips
- L = With Location Posts; Omit = Without Posts
- T = Tape and Reel; Omit = In Tube
- 2 = Mating Height of 4 and 6 mm; 3 = Mating Height of 5 and 7 mm; 4 = Mating Height of 6 and 8 mm

For technical, sales or ordering information call **800-225-5373**

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