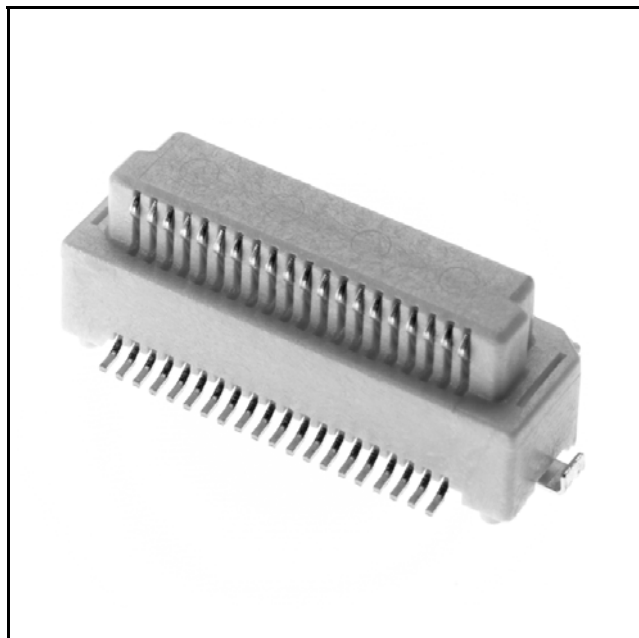


# 3M™ Pak 5 Plug

0.5 mm Straight SMT Plug

PK5 Series



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

Date Modified: July 25, 2006

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Sheet 1 of 4

## Physical

### Insulation

Material: Glass filled LCP  
Flammability: UL 94V-0  
Color: White

### Contact

Material: Copper Alloy

### Plating

Underplating: Nickel  
Wiping Area:  $2 \mu\text{m}$  [  $0.05 \mu\text{m}$  ] min. Gold over Nickel  
Solder Tails: Gold over Nickel

## Electrical

**Current Rating:** 0.3 A

**Insulation Resistance:**  $10^3 \text{ M}\Omega$  min at 250 VDC

**Withstanding Voltage:** 200 VAC for 1 minute

## Environmental

**Temperature Rating:**  $-55^\circ\text{C}$  to  $+85^\circ\text{C}$

**Process Rating:**  $260^\circ\text{C}$  (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.



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# 3M™ Pak 5 Plug

0.5 mm Straight SMT Plug

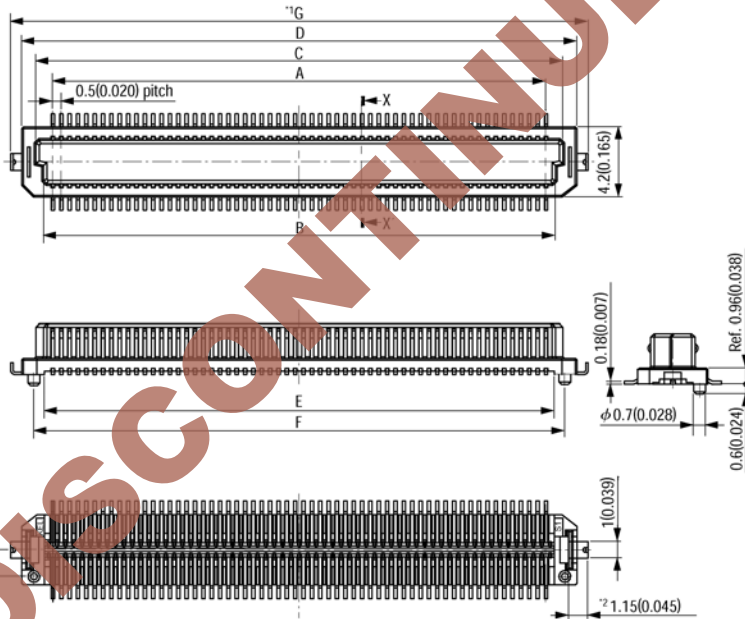
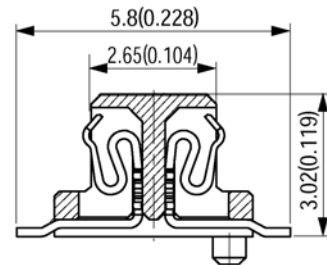
PK5 Series

Plug for 4, 5, 6 mm stacked height.

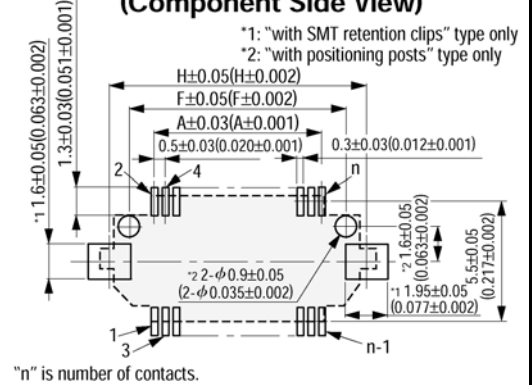
Product Table / Dimensions

Contact Quantity	A	B	C	D	E	F	G	H
40	9.50 [0.374]	10.62 [0.418]	11.52 [0.454]	13.22 [0.520]	10.50 [0.413]	11.76 [0.463]	14.54 [0.572]	13.59 [0.535]
50	12.00 [0.472]	13.12 [0.517]	14.02 [0.552]	15.72 [0.619]	13.00 [0.512]	14.26 [0.561]	17.04 [0.671]	16.09 [0.633]
60	14.50 [0.571]	15.62 [0.615]	16.52 [0.650]	18.22 [0.717]	15.50 [0.610]	16.76 [0.660]	19.54 [0.769]	18.59 [0.732]
80	19.50 [0.768]	20.62 [0.812]	21.52 [0.847]	23.22 [0.914]	20.50 [0.807]	21.76 [0.857]	24.54 [0.966]	23.59 [0.929]
100	24.50 [0.965]	25.62 [1.009]	26.52 [1.044]	28.22 [1.111]	25.50 [1.004]	26.76 [1.054]	29.54 [1.163]	28.59 [1.126]
120	29.50 [1.161]	30.62 [1.206]	31.52 [1.241]	33.22 [1.308]	30.50 [1.201]	31.76 [1.250]	34.54 [1.360]	33.59 [1.322]
140	34.50 [1.358]	35.62 [1.402]	36.52 [1.438]	38.22 [1.505]	35.50 [1.398]	36.76 [1.447]	39.54 [1.557]	38.59 [1.519]
160	39.50 [1.555]	40.62 [1.599]	41.52 [1.635]	43.22 [1.702]	40.50 [1.594]	41.76 [1.644]	44.54 [1.754]	43.59 [1.716]

X-X' Cross Section



Printed Circuit Board Layout (Component Side View)



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Sheet 2 of 4

# 3M™ Pak 5 Plug

0.5 mm Straight SMT Plug

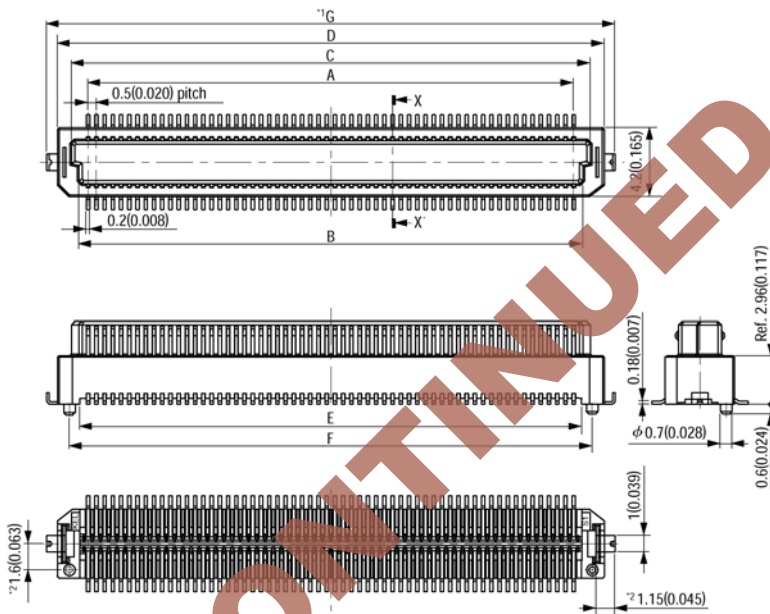
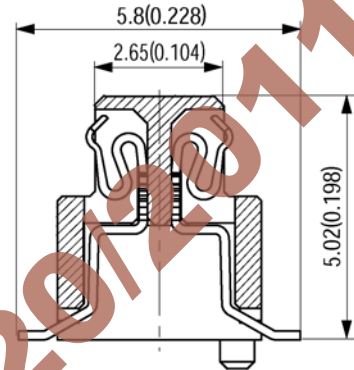
PK5 Series

Plug for 6, 7, 8 mm stacked height.

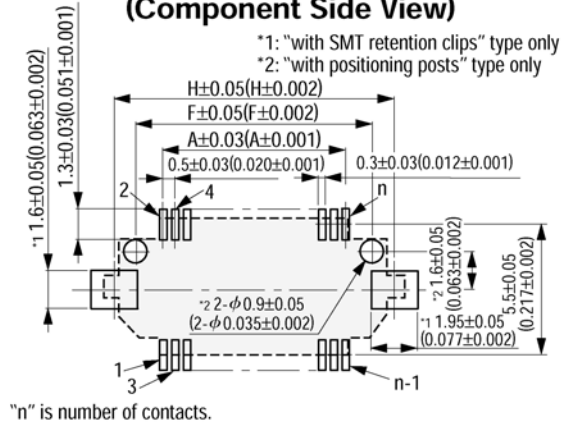
Product Table / Dimensions

Contact Quantity	A	B	C	D	E	F	G	H
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	[0.374]	[0.418]	[0.454]	[0.520]	[0.413]	[0.463]	[0.572]	[0.535]
50	12.00	13.12	14.02	15.72	13.00	14.26	17.04	16.09
	[0.472]	[0.517]	[0.552]	[0.619]	[0.512]	[0.561]	[0.671]	[0.633]
60	14.50	15.62	16.52	18.22	15.50	16.76	19.54	18.59
	[0.571]	[0.615]	[0.650]	[0.717]	[0.610]	[0.660]	[0.769]	[0.732]
80	19.50	20.62	21.52	23.22	20.50	21.76	24.54	23.59
	[0.768]	[0.812]	[0.847]	[0.914]	[0.807]	[0.857]	[0.966]	[0.929]
100	24.50	25.62	26.52	28.22	25.50	26.76	29.54	28.59
	[0.965]	[1.009]	[1.044]	[1.111]	[1.004]	[1.054]	[1.163]	[1.126]
120	29.50	30.62	31.52	33.22	30.50	31.76	34.54	33.59
	[1.161]	[1.206]	[1.241]	[1.308]	[1.201]	[1.250]	[1.360]	[1.322]
140	34.50	35.62	36.52	38.22	35.50	36.76	39.54	38.59
	[1.358]	[1.402]	[1.438]	[1.505]	[1.398]	[1.447]	[1.557]	[1.519]
160	39.50	40.62	41.52	43.22	40.50	41.76	44.54	43.59
	[1.555]	[1.599]	[1.635]	[1.702]	[1.594]	[1.644]	[1.754]	[1.716]

X-X' Cross Section



Printed Circuit Board Layout (Component Side View)



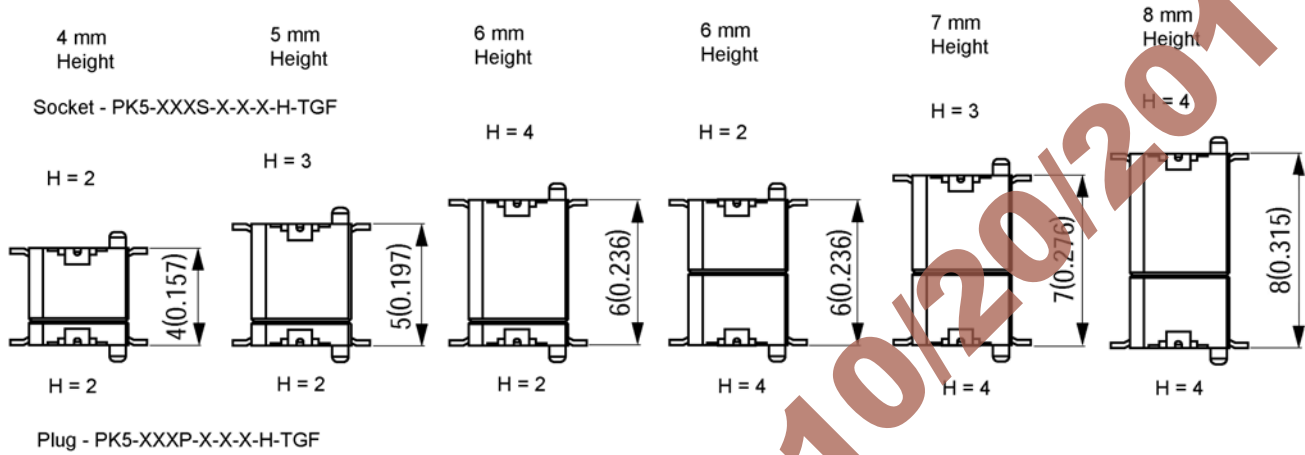
TS-1153-02  
 Sheet 3 of 4

# 3M™ Pak 5 Plug

0.5 mm Straight SMT Plug

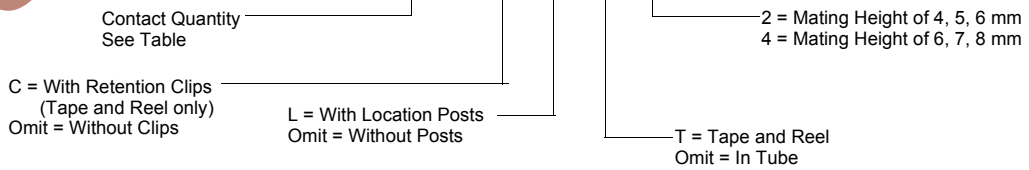
PK5 Series

## STACKED MATING COMBINATIONS



## Ordering Information

PK5 - XXXP - X - X - X - X - GGF



TS-1153-02  
Sheet 4 of 4



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