

P05 — XXX S T — A — G

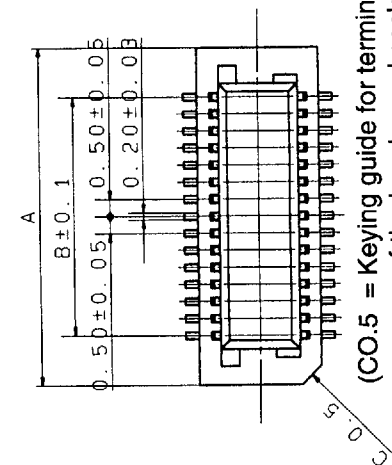
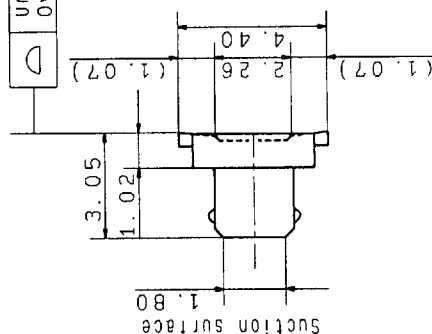
Number of Contacts: 20, 30, 40, 50, 60, 80, 100

S = Socket

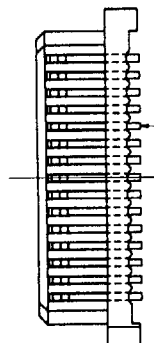
A = Type A

Packaging: T = Tape & Reel

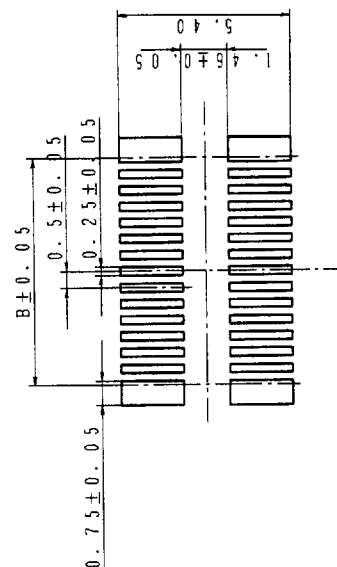
Under 60 contacts: 0.10
Over 80 contacts: 0.12



(CO.5 = Keying guide for termination of the header and socket)

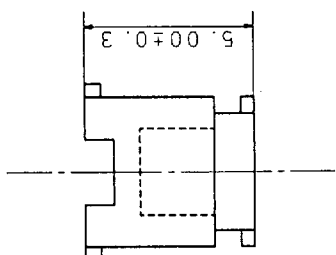


Under 60 contacts: 0.10
Over 80 contacts: 0.12



Printed Circuit Board Layout

Assembly Drawing



No. of Contacts	A	B
20	7.40	4.50
30	9.90	7.00
40	12.40	9.50
50	14.90	12.00
60	17.40	14.50
80	22.40	19.50
100	27.40	24.50

General tolerance ± 0.3

ALL DIMENSIONS ARE IN MILLIMETERS

CUSTOMER DRAWING

**Robinson
Nugent**

812/945-0211
812/945-0805 FAX

PAK-5™ P05-XXXST-A-G
.5mm Pitch SMT Socket (Type A)

Specifications for PAK-5™/PAK-8™

MATERIALS

Body:	High Temp Plastic	Plating: TG =	0.2 μ m (8 μ inch) Gold on contact area.
Contacts:	Copper Alloy		2.03 μ m (80 μ inch) Tin/Lead on terminal area.
Bracket:	Copper Alloy	G =	0.2 μ m (8 μ inch) Gold overall.
Flammability:	UL-94V-0	All options include 1.27 μ m (50 μ inch) Nickel underplate	

MECHANICAL

Maximum Insertion Force
Minimum Withdrawal Force

Number of Contacts:	16	20	30	40	50	80	100
PAK-8	32.10N 5.68N	35.30N 5.88N	43.10N 6.37N	51.00N 6.86N	58.80N 7.35N	82.40N 8.82N	98.10N 9.81N
PAK-8 Hermaphroditic	— —	— —	23.55N 3.81N	31.40N 5.08N	39.25N 6.35N	62.80N 10.16N	78.50N 12.70N
PAK-5	— —	19.62N 1.57N	29.43N 2.36N	39.24N 3.14N	49.05N 3.93N	78.48N 6.28N	98.10N 7.85N

ELECTRICAL

	PAK-8™ Socket/Plug	PAK-8™ Hermaphroditic Connector	PAK-5™ Socket/Plug
Insulation Resistance:	1000 M Ω min.	1000 M Ω min.	1000M Ω min.
Dielectric Withstanding:	250 Volts DC	250 Volts DC	150 Volts AC
Contact Resistance:	60m Ω max.*	50m Ω max.	80m Ω max.
Current Rating:	0.5A/Contact	0.5A/Contact	0.2A/Contact
Rated Voltage:	AC, DC 60V	AC, DC 60V	AC, DC 60V

ENVIRONMENTAL

	PAK-8™ Socket/Plug	PAK-8™ Hermaphroditic Connector	PAK-5™ Socket/Plug
Durability:	50 cycles 60m Ω max	100 cycles 50m Ω max.	20 cycles 80m Ω max.
Ambient Temperature:	-50° to + 85°C	-50° to + 85°C	-50° to + 85°C
Thermal Shock Resistance (mated pair)			
Contact Resistance maximum:	60m Ω	50m Ω	80m Ω
Insulation Resistance minimum:	100M Ω	100M Ω	100M Ω
Salt Water Spray (mated pair)			
Contact Resistance maximum:	60m Ω	50m Ω	80m Ω
Insulation Resistance minimum:	100M Ω	100M Ω	100M Ω
Humidity Resistance (mated pair)			
Contact Resistance maximum:	60m Ω	50m Ω	80m Ω
Insulation Resistance minimum:	100M Ω	100M Ω	100M Ω
H₂S Gas Resistance			
Contact Resistance maximum:	60m Ω	50m Ω	80m Ω
SO₂ Gas Resistance			
Contact Resistance maximum:	60m Ω	50m Ω	80m Ω
Soldering Heat Resistance:	Peak temperature of 245°C; 300°C within 5 seconds; 350°C within 3 seconds		

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

3M:

[P05-060ST-A-G](#)