

Specifications for SOP Sockets

MATERIALS

Body & Frame: Glass reinforced PPS (UL 94V-0) **Plating:** TT = 2.03 μm (80 μinch) Tin/Lead overall.
Contact: Phosphor Bronze 1.27 μm (50 μinch) Nickel underplate.

ELECTRICAL

Current Rating: 0.5 Ampere per contact **Breakdown Voltage:** 500V AC for 1 minute
Insulation Resistance: Minimum 1000M Ω **Contact Resistance:** Maximum 30m Ω

MECHANICAL

Shock Resistance: 980m/S² (100G) (3 axis)
 (No interruption of current longer than 1 μs)

ENVIRONMENTAL

APPLICABLE IC

<p>Operating Temperature: -55°C to + 85°C</p> <p>Thermal Shock Resistance: Contact resistance: Maximum 30mΩ Insulation resistance: Minimum 100MΩ</p> <p>Humidity Resistance: Contact resistance: Maximum 30MΩ Insulation resistance: Minimum 100MΩ</p> <p>H₂S Gas Resistance: Contact resistance: Maximum 30mΩ</p> <p>SO₂ Gas Resistance: Contact resistance: Maximum 30mΩ</p> <p>Soldering Heat Resistance: Peak temperature of 245°C 300°C within 5 seconds</p>	<p>8 contacts (300mil): Fujitsu: FPT-80-M01 TI: P-S008</p> <p>14 contacts (300mil): NEC: P14GM-50-300B-2 Hitachi: FP-14D,EP-14-DA Mitsubishi: 14P2W Fujitsu: FPT-14P-MO4 Toshiba: SOP14-P-300 Motorola: 751A-02 TI: PS014</p> <p>20 contacts (300mil): NEC: P20GM-50-300B, C-2 Hitachi: FP-20DA, FP-20-D</p> <p>(375mil): NEC: P20GM-50-375B-3, P20GT-50-375B-2 Fujitsu: FPT-20P-M02 Motorola: 751D-03</p> <p>24 contacts (300mil): NEC: P24GM-50-300B-2</p> <p>28 contacts (375mil): NEC: P28GM-50-375B-2, P28GT-50-375B Fujitsu: FPT-28P-M01 Motorola: 751F-02 Mitsubishi: 28P2V-A</p> <p>(450mil): Toshiba: SOP28-P-450 Okidenki: SOP28-P430-K ATMEL: 28R</p> <p>32 contacts (450mil): Fujitsu: FPT-32P-M02 Toshiba: SOP32-P-450</p> <p>(525mil): NEC: S32GM-50-525A-2 Hitachi: FP-32D Fujitsu: FPT-32P-M03 Toshiba: SOP32-P-525 Mitsubishi: 32P2M-A</p> <p>40 contacts (525mil): Hitachi: FP-40D Mitsubishi: 40P2M-A</p> <p>44 contacts (500mil): NEC: P44GX-50-600A Intel: 231309-8D</p>
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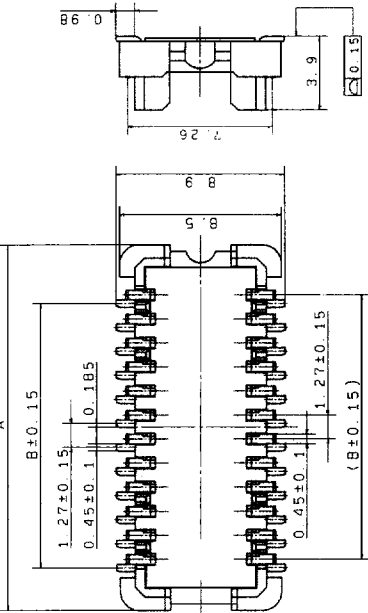
SOP — XX A XX — SMT — TT

Position:

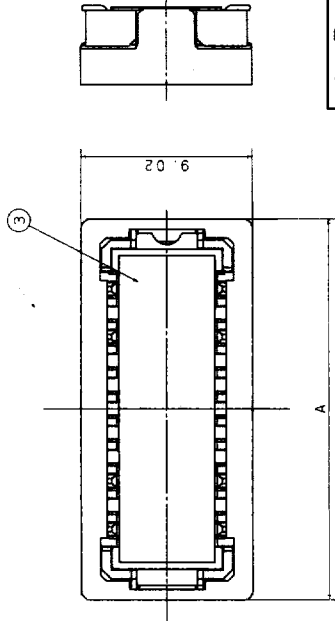
8, 14, 20, 24

Plating

A = .300" Row Spacing



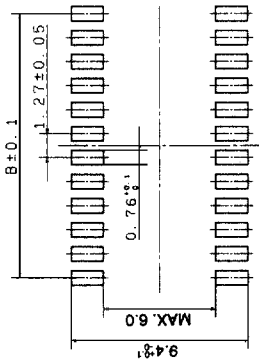
Blank = Tube Pack
 TP = Tape and Reel (body only)
 *Frames are packaged in vinyl bags



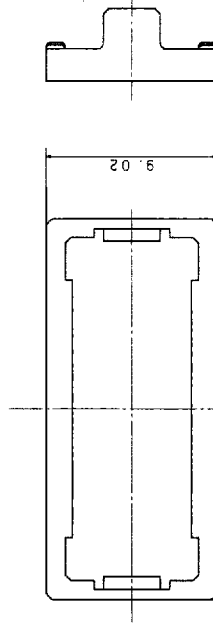
- 1 = Body
- 2 = Frame
- 3 = SO Package IC



PC board pattern



± 0.3 General Tolerance



ALL DIMENSIONS
 IN MILLIMETERS

Positions	A	B	C
8	9.15	3.81	9.95
14	12.98	7.62	13.76
20	16.77	11.43	17.57
24	19.31	13.97	20.11

Robinson Nugent 812/945-0211 812/945-0805 FAX

SOP-XXAXX-SMT-XX
 SMT SOP Socket (.300" row spacing)
 Body and Frame

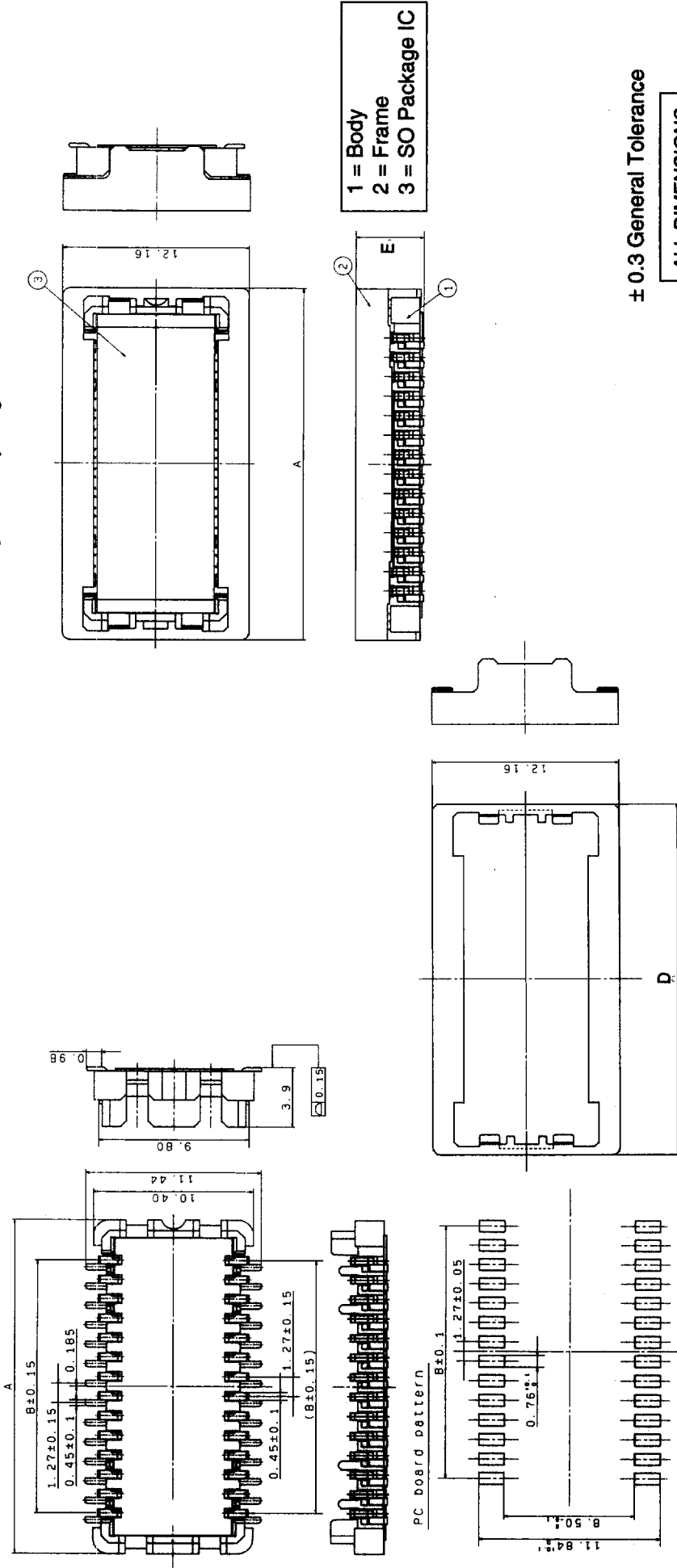
SOP — XX B XX — SMT — TT

Position:
20, 28

B = .375" Row Spacing

Blank = Tube Pack
TP = Tape and Reel (body only)
*Frames are packaged in vinyl bags

Plating



± 0.3 General Tolerance

ALL DIMENSIONS
IN MILLIMETERS

ALL DIMENSIONS
IN MILLIMETERS

**Robinson
Nugent**

812/945-0211
812/945-0805 FAX

SOP-XXBXX-SMT-XX
SMT SOP Socket (.375" row spacing)
Body and Frame

Positions	A	B	C	D	E	F
20	16.77	11.43	4.05	17.87	4.30	4.05
28	21.85	16.51	4.25	22.95	4.50	4.25

SOP — XX C XX — SMT — TT

Position:
28, 32

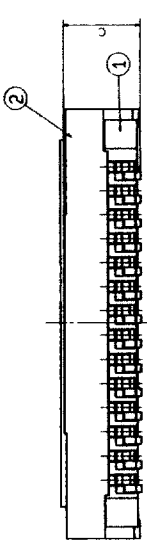
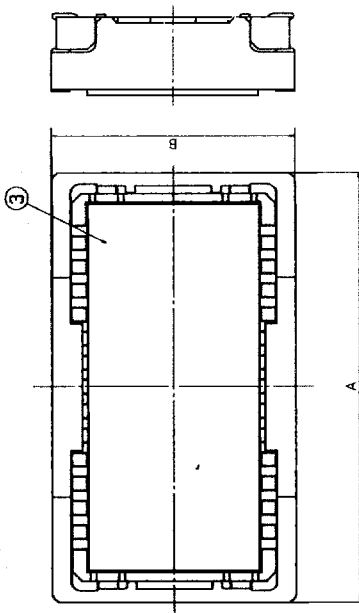
Plating

Blank = Tube Pack

TP = Tape and Reel (body only)

*Frames are packaged in vinyl bags

C = .450" Row Spacing



	A	B	C
28	22.65	12.83	3.85
32	25.49	13.92	4.33

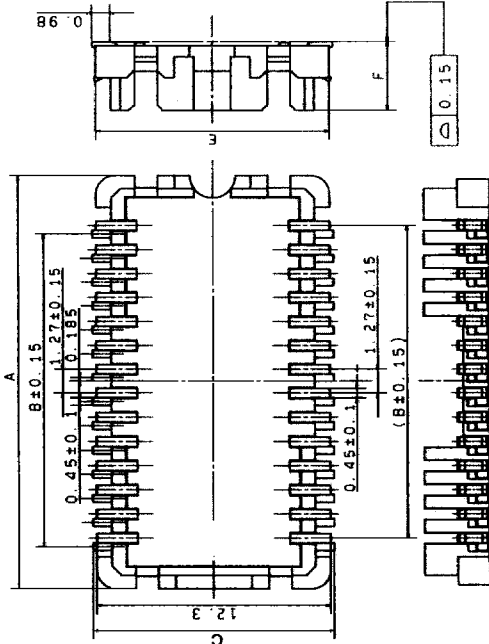
± 0.3 General Tolerance

ALL DIMENSIONS
IN MILLIMETERS

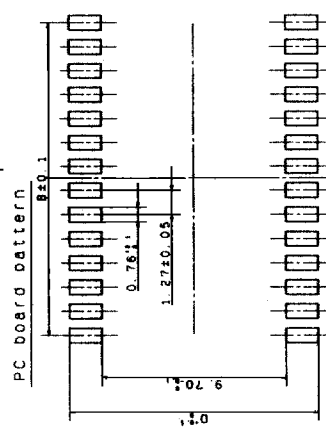
**Robinson
Nugent**

812/945-0211
812/945-0805 FAX

SOP-XXCXX-SMT-XX
SMT SOP Socket (.450" row spacing)
Body and Frame



	28	32
A	21.85	24.39
B	16.51	19.05
C	12.70	12.89
D	13.10	13.30
E	11.02	11.25
F	3.65	3.90



1 = Body
2 = Frame
3 = SO Package IC

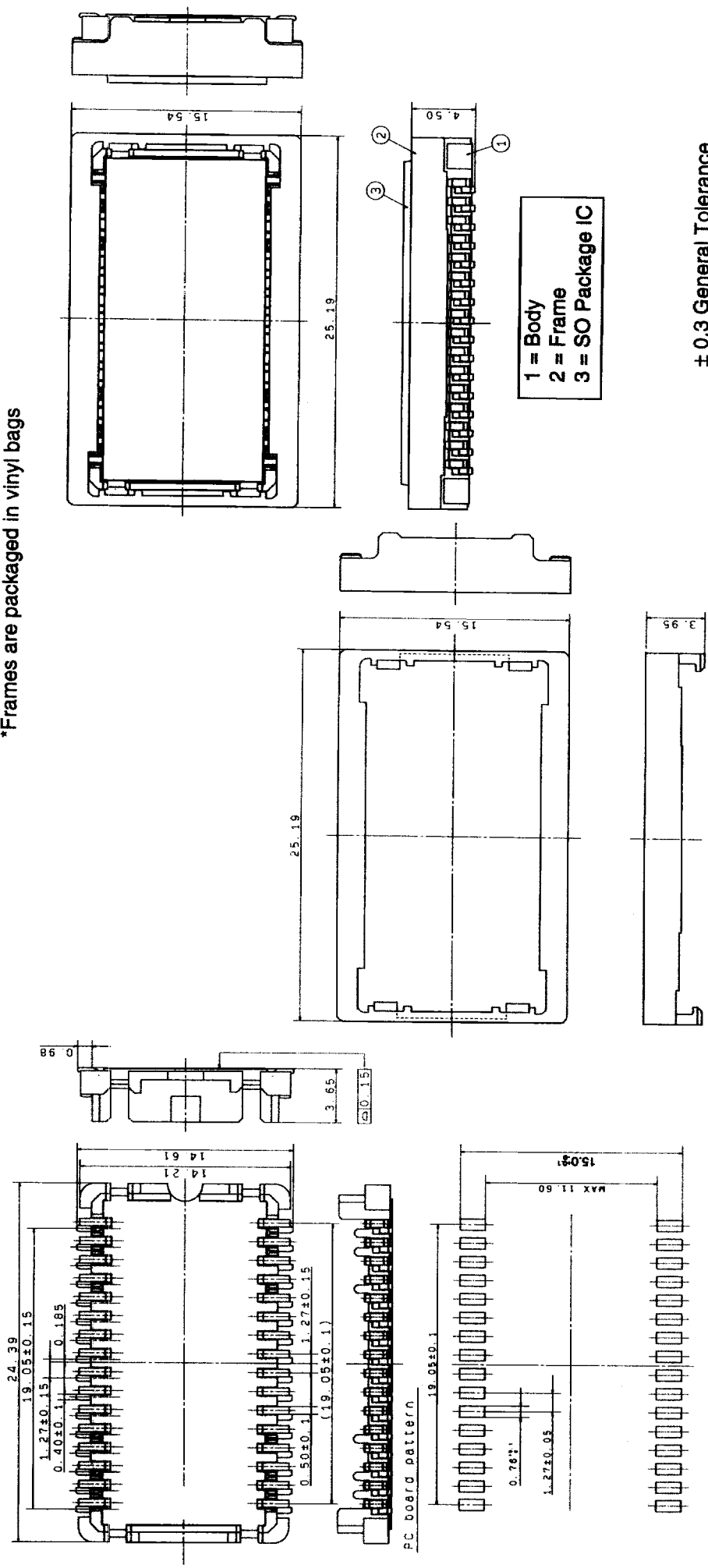
Positions	A	B	C	D	E
28	21.85	16.51	12.70	13.10	11.02
32	21.85	16.51	4.25	22.95	4.50

SOP — 32 D XX — SMT — TT

Position: 32
 Plating

Blank = Tube Pack
 TP = Tape and Reel (body only)
 *Frames are packaged in vinyl bags

D = .525" Row Spacing



ALL DIMENSIONS
 IN MILLIMETERS

**Robinson
 Nugent**
 812/945-0211
 812/945-0805 FAX

SOP-32DXX-SMT-XX
 32 Position, SMT SOP Socket (.525" row spacing)
 Body and Frame

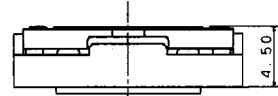
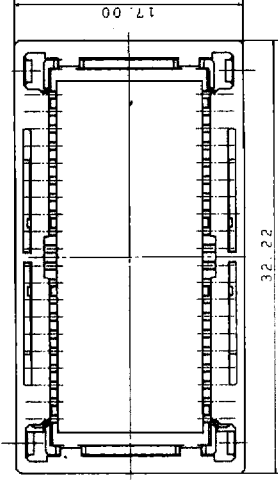
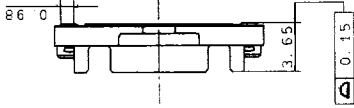
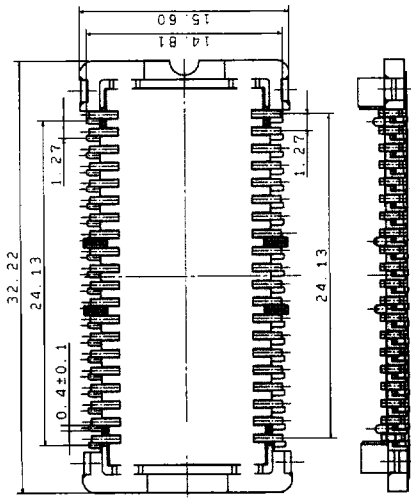
SOP-40 D XX - SMT - TT

Position:
40

Plating

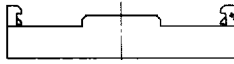
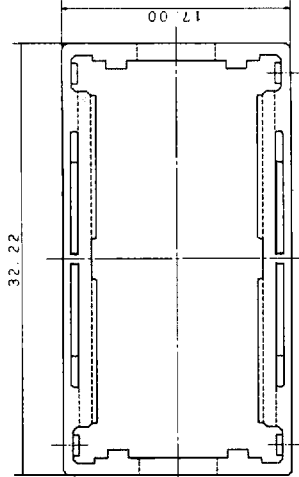
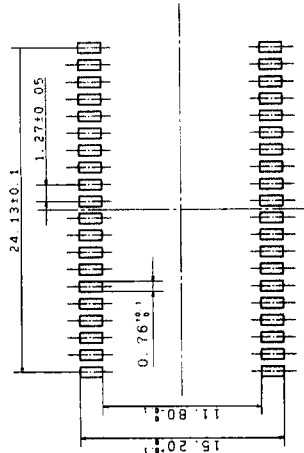
D = .525" Row Spacing

Blank = Tube Pack
TP = Tape and Reel (body only)
*Frames are packaged in vinyl bags



1 = Body
2 = Frame
3 = SO Package IC

Recommended PC board pattern
(mounting pad layout)



± 0.3 General Tolerance

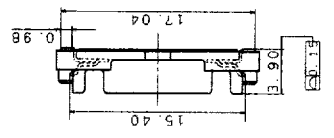
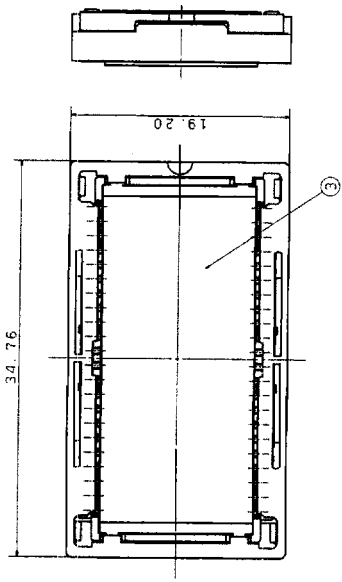
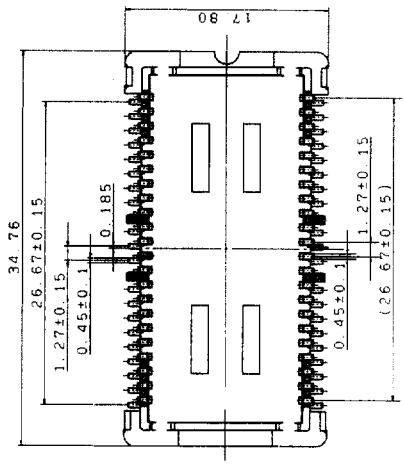
ALL DIMENSIONS
IN MILLIMETERS

<p>Robinson Nugent</p>	
812/945-0211	812/945-0805 FAX
<p>SOP-40DXX-SMT-TT 40 Position, SMT SOP Socket (.525" row spacing) Body and Frame</p>	

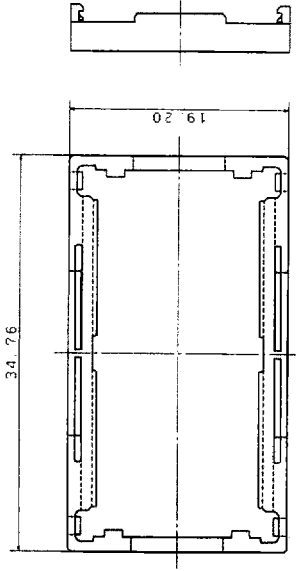
SOP — 44 E XX — SMT — TT

Position: 44
 Blank = Tube Pack
 TP = Tape and Reel (body only)
 *Frames are packaged in vinyl bags

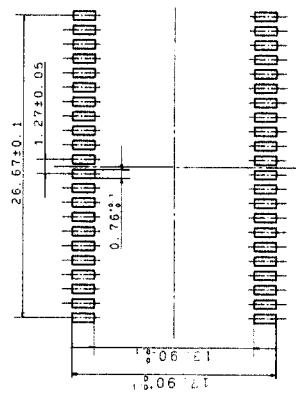
E = .600" Row Spacing
 Plating



1 = Body
 2 = Frame
 3 = SO Package IC



Recommended PC board pattern
 (mounting pad layout)



± 0.3 General Tolerance

Robinson Mugent	812/945-0211 812/945-0805 FAX
SOP-44EXX-SMT-TT 44 Position, SMT SOP Socket (.600" row spacing) Body and Frame	

ALL DIMENSIONS
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