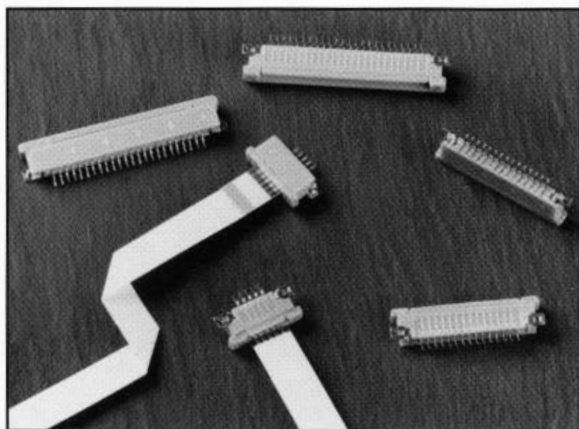


IL-402/402R SERIES CONNECTORS

1.0mm (.039") Pitch, ZIF Type SMT Connectors for FPC/FFC



FEATURES

- SMT configuration
- Low profile of 2.5mm (0.098")
- Easy termination of cable utilizing a slide actuator
- Zero Insertion Force (ZIF) cable termination
- Hold down tabs prevent floating up of the connector during soldering and secure the connector on PCB
- Optional embossed tape packaging for automatic mounting

.....

The IL-402/402R Series has been developed to meet the demands of increased density of components in the surface mount environment. This 1.0mm (.039") pitch, low profile connector for Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) has a mounting height of 2.5mm (.098"). Its construction is compatible with automatic mounting equipment when ordered on embossed tape. Zero Insertion Force cable termination allows for simplified operation.

GENERAL SPECIFICATIONS

Number of Contacts	IL-402/4 to 30, IL-402R/4, 7, 8, 10 to 12, 14 to 18, 20, 23
Contact Spacing	1.0mm (.039"), Single Row
Current Rating	0.5 Amps
Operating Voltage	200 VAC, VDC
Dielectric Withstanding Voltage	500 VAC r.m.s. (one minute)
Insulation Resistance	1000 megohms min.
Contact Resistance	20 milliohms max.
Operating Temperature	-40°C +85°C
Applicable FPC	1.0mm (.039") Center (IL-402) 0.3mm ^{+0.05} / _{-0.02} mm (.012" ^{+0.002} / _{-.001} ") Thick (IL-402R) 0.3mm ± 0.05mm (.012" ± .002") Thick

MATERIALS AND FINISHES

Description	Materials/Finishes
Contact	Phosphor Bronze/Tin Plated
Insulator	Glass-filled PPS (UL94V-0, Light Gray)
Hold-down Tab	Phosphor Bronze/Tin Plated
Slider	Glass filled PPS

ORDERING INFORMATION

	IL - 402 *	- **	S - S	1	L - SA	- E****
Series	IL-402 - Bottom Contact Mating IL-402R - Top Contact Mating					
No. of Contacts						
Contact Type			S - Socket			
Contact Arrangement			S - Single Row			
Contact Pitch			1 - 1.0mm (.039")			
Termination			L - Right Angle			
Modification Code						
Embossed Tape Packaging						
						E1000 - 1000 pcs. per reel (4 to 24 contacts) E1500 - 1500 pcs. per reel. (25 to 30 contacts)

Dimensions and specifications subject to change without notice.

Hong Kong
Tel: 2723-7782
Fax: 2723-9028

Japan
03-3780-2715
03-3780-2883

Korea
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2-551-8958

Philippines
46-433-0276
46-433-0287

Singapore
748-1332
748-2920

Taiwan
02-555-9711
02-556-5424

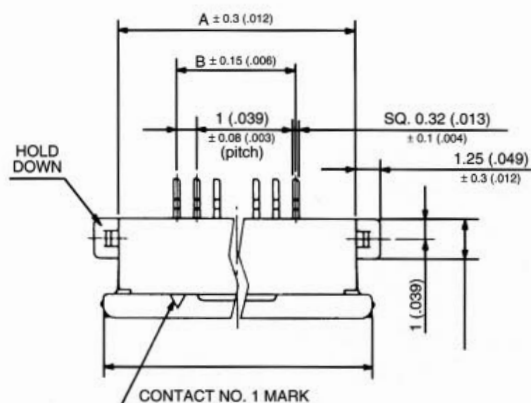
Europe
1276-21717
1276-66165

United States
949-753-2600
949-753-2699

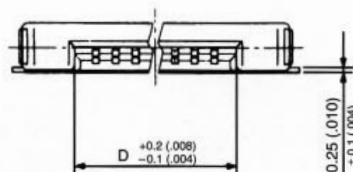


IL-402/402R SERIES CONNECTORS

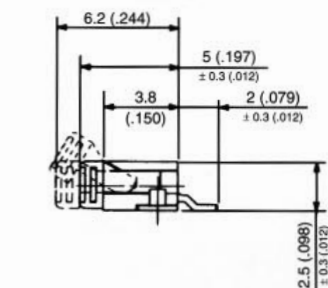
1.0mm (.039") Pitch, ZIF Type SMT Connectors for FPC/FFC



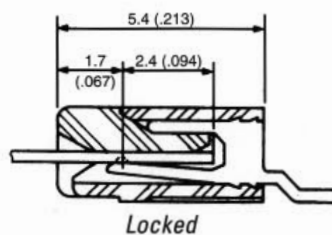
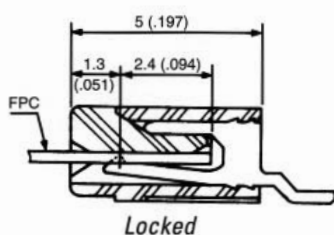
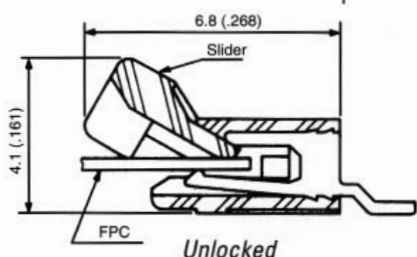
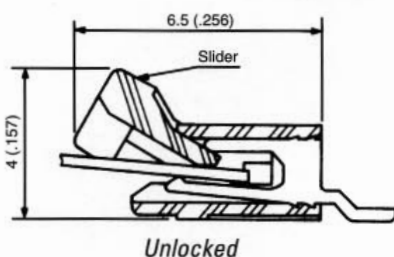
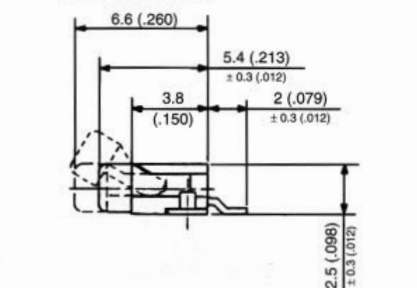
IL-402 SERIES (Bottom Contact Mating)



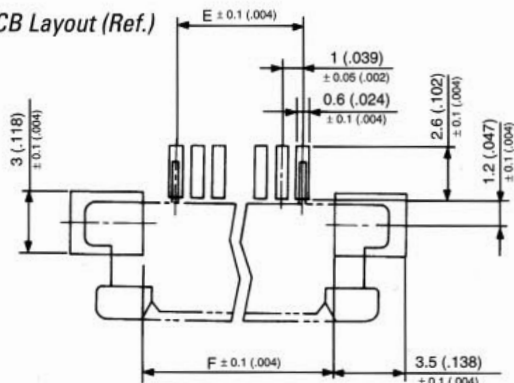
4-20 Positions



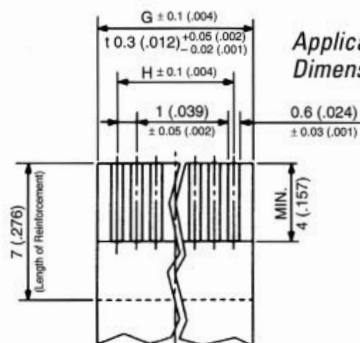
21-30 Positions



PCB Layout (Ref.)



Applicable Cable Dimensions (Ref.)



Note : See page 174 for dimension table.

Dimensions in mm (inches).



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46-433-0276
46-433-0287

Singapore
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748-2920

Taiwan
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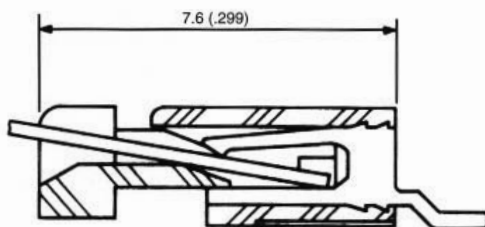
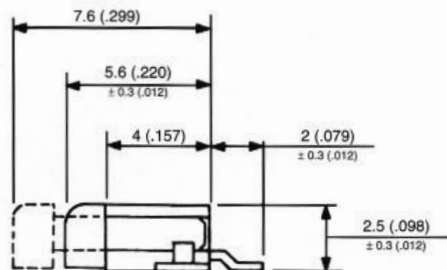
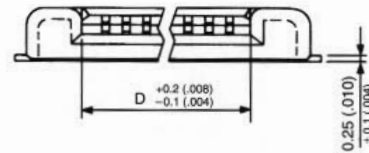
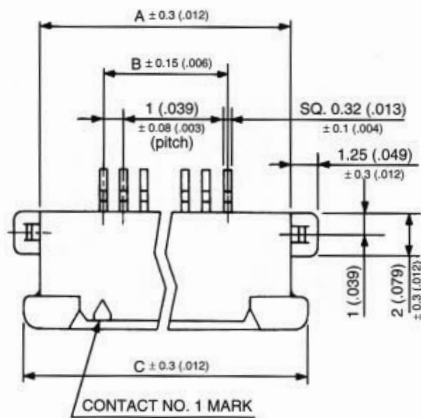
Europe
1276-21717
1276-66165

United States
949-753-2600
949-753-2699

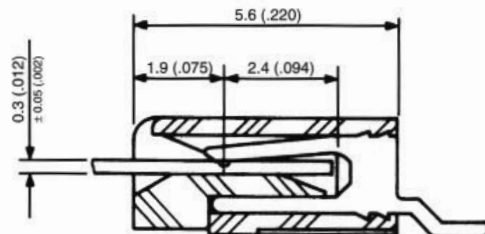
IL-402/402R SERIES CONNECTORS

1.0mm (.039") Pitch, ZIF Type SMT Connectors for FPC/FFC

IL-402R SERIES (Top Contact Mating)

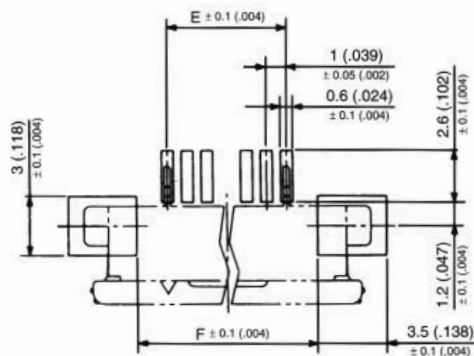


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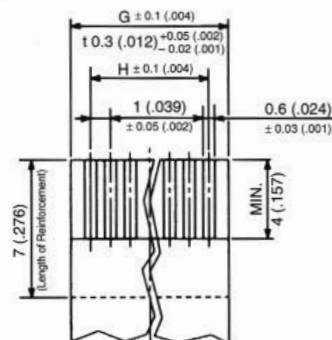


Locked

PCB Layout (Ref.)



Applicable Cable Dimensions (Ref.)



Note: See page 174 for dimension table.

Dimensions in mm (inches).

Hong Kong
Tel: 2723-7782
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Japan
03-3780-2715
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748-2920

Taiwan
02-555-9711
02-556-5424

Europe
1276-21717
1276-66165

United States
949-753-2600
949-753-2699



IL-402/402R SERIES CONNECTORS

1.0mm (.039") Pitch, ZIF Type SMT Connectors for FPC/FFC

Dimension Table

IL-402 SERIES

CONTACTS	PART NUMBER	A	B	C	D	E	F	G	H
4	IL-402- 4S-S1L-SA	9 (.354)	3 (.118)	10.6 (.417)	5.2 (.205)	3 (.118)	6.1 (.240)	5 (.197)	3 (.118)
5	IL-402- 5S-S1L-SA	10 (.394)	4 (.157)	11.6 (.457)	6.2 (.244)	4 (.157)	7.1 (.280)	6 (.236)	4 (.157)
6	IL-402- 6S-S1L-SA	11 (.433)	5 (.197)	12.6 (.496)	7.2 (.283)	5 (.197)	8.1 (.319)	7 (.276)	5 (.197)
7	IL-402- 7S-S1L-SA	12 (.472)	6 (.236)	13.6 (.535)	8.2 (.323)	6 (.236)	9.1 (.358)	8 (.315)	6 (.236)
8	IL-402- 8S-S1L-SA	13 (.512)	7 (.276)	14.6 (.575)	9.2 (.362)	7 (.276)	10.1 (.398)	9 (.354)	7 (.276)
9	IL-402- 9S-S1L-SA	14 (.551)	8 (.315)	15.6 (.614)	10.2 (.402)	8 (.315)	11.1 (.437)	10 (.394)	8 (.315)
10	IL-402-10S-S1L-SA	15 (.591)	9 (.354)	16.6 (.654)	11.2 (.441)	9 (.354)	12.1 (.476)	11 (.433)	9 (.354)
11	IL-402-11S-S1L-SA	16 (.630)	10 (.394)	17.6 (.693)	12.2 (.480)	10 (.394)	13.1 (.516)	12 (.472)	10 (.394)
12	IL-402-12S-S1L-SA	17 (.669)	11 (.433)	18.6 (.732)	13.2 (.520)	11 (.433)	14.1 (.555)	13 (.512)	11 (.433)
13	IL-402-13S-S1L-SA	18 (.709)	12 (.472)	19.6 (.772)	14.2 (.559)	12 (.472)	15.1 (.594)	14 (.551)	12 (.472)
14	IL-402-14S-S1L-SA	19 (.748)	13 (.512)	20.6 (.811)	15.2 (.598)	13 (.512)	16.1 (.634)	15 (.591)	13 (.512)
15	IL-402-15S-S1L-SA	20 (.787)	14 (.551)	21.6 (.850)	16.2 (.638)	14 (.551)	17.1 (.673)	16 (.630)	14 (.551)
16	IL-402-16S-S1L-SA	21 (.827)	15 (.591)	22.6 (.890)	17.2 (.677)	15 (.591)	18.1 (.713)	17 (.669)	15 (.591)
17	IL-402-17S-S1L-SA	22 (.866)	16 (.630)	23.6 (.929)	18.2 (.717)	16 (.630)	19.1 (.752)	18 (.709)	16 (.630)
18	IL-402-18S-S1L-SA	23 (.906)	17 (.669)	24.6 (.969)	19.2 (.756)	17 (.669)	20.1 (.791)	19 (.748)	17 (.669)
19	IL-402-19S-S1L-SA	24 (.945)	18 (.709)	25.6 (1.008)	20.2 (.795)	18 (.709)	21.1 (.831)	20 (.787)	18 (.709)
20	IL-402-20S-S1L-SA	25 (.984)	19 (.748)	26.6 (1.047)	21.2 (.835)	19 (.748)	22.1 (.870)	21 (.827)	19 (.748)
21	IL-402-21S-S1L-SA	26 (1.024)	20 (.787)	27.6 (1.087)	22.2 (.874)	20 (.787)	23.1 (.909)	22 (.866)	20 (.787)
22	IL-402-22S-S1L-SA	27 (1.063)	21 (.827)	28.6 (1.126)	23.2 (.913)	21 (.827)	24.1 (.949)	23 (.906)	21 (.827)
23	IL-402-23S-S1L-SA	28 (1.102)	22 (.866)	29.6 (1.165)	24.2 (.953)	22 (.866)	25.1 (.988)	24 (.945)	22 (.866)
24	IL-402-24S-S1L-SA	29 (1.142)	23 (.906)	30.6 (1.205)	25.2 (.992)	23 (.906)	26.1 (1.028)	25 (.984)	23 (.906)
25	IL-402-25S-S1L-SA	30 (1.181)	24 (.945)	31.6 (1.244)	26.2 (1.031)	24 (.945)	27.1 (1.067)	26 (1.024)	24 (.945)
26	IL-402-26S-S1L-SA	31 (1.220)	25 (.984)	32.6 (1.283)	27.2 (1.071)	25 (.984)	28.1 (1.106)	27 (1.063)	25 (.984)
27	IL-402-27S-S1L-SA	32 (1.260)	26 (1.024)	33.6 (1.323)	28.2 (1.110)	26 (1.024)	29.1 (1.146)	28 (1.102)	26 (1.024)
28	IL-402-28S-S1L-SA	33 (1.299)	27 (1.063)	34.6 (1.362)	29.2 (1.150)	27 (1.063)	30.1 (1.185)	29 (1.142)	27 (1.063)
29	IL-402-29S-S1L-SA	34 (1.339)	28 (1.102)	35.6 (1.402)	30.2 (1.189)	28 (1.102)	31.1 (1.224)	30 (1.181)	28 (1.102)
30	IL-402-30S-S1L-SA	35 (1.378)	29 (1.142)	36.6 (1.441)	31.2 (1.228)	29 (1.142)	32.1 (1.264)	31 (1.220)	29 (1.142)

IL-402R SERIES

CONTACTS	PART NUMBER	A	B	C	D	E	F	G	H
4	IL-402R- 4S-S1L-SA	9 (.354)	3 (.118)	10.6 (.417)	5.2 (.205)	3 (.118)	6.1 (.240)	5 (.197)	3 (.118)
7	IL-402R- 7S-S1L-SA	12 (.472)	6 (.236)	13.6 (.535)	8.2 (.323)	6 (.236)	9.1 (.358)	8 (.315)	6 (.236)
8	IL-402R- 8S-S1L-SA	13 (.512)	7 (.276)	14.6 (.575)	9.2 (.362)	7 (.276)	10.1 (.398)	9 (.354)	7 (.276)
10	IL-402R-10S-S1L-SA	15 (.591)	9 (.354)	16.6 (.654)	11.2 (.441)	9 (.354)	12.1 (.476)	11 (.433)	9 (.354)
11	IL-402R-11S-S1L-SA	16 (.630)	10 (.394)	17.6 (.693)	12.2 (.480)	10 (.394)	13.1 (.516)	12 (.472)	10 (.394)
12	IL-402R-12S-S1L-SA	17 (.669)	11 (.433)	18.6 (.732)	13.2 (.520)	11 (.433)	14.1 (.555)	13 (.512)	11 (.433)
14	IL-402R-14S-S1L-SA	19 (.748)	13 (.512)	20.6 (.811)	15.2 (.598)	13 (.512)	16.1 (.634)	15 (.591)	13 (.512)
15	IL-402R-15S-S1L-SA	20 (.787)	14 (.551)	21.6 (.850)	16.2 (.638)	14 (.551)	17.1 (.673)	16 (.630)	14 (.551)
16	IL-402R-16S-S1L-SA	21 (.827)	15 (.591)	22.6 (.890)	17.2 (.677)	15 (.591)	18.1 (.713)	17 (.669)	15 (.591)
17	IL-402R-17S-S1L-SA	22 (.866)	16 (.630)	23.6 (.929)	18.2 (.717)	16 (.630)	19.1 (.752)	18 (.709)	16 (.630)
18	IL-402R-18S-S1L-SA	23 (.906)	17 (.669)	24.6 (.969)	19.2 (.756)	17 (.669)	20.1 (.791)	19 (.748)	17 (.669)
20	IL-402R-20S-S1L-SA	25 (.984)	19 (.748)	26.6 (1.047)	21.2 (.835)	19 (.748)	22.1 (.870)	21 (.827)	19 (.748)
23	IL-402R-23S-S1L-SA	28 (1.102)	22 (.866)	29.6 (1.165)	24.2 (.953)	22 (.866)	25.1 (.988)	24 (.945)	22 (.866)

• TO ORDER BY REEL OF EMBOSSED TAPE, ADD -E1000 FOR 4 TO 24 CONTACTS OR -E1500 FOR 25 TO 30 CONTACTS TO END OF PART NUMBER.

Dimensions in mm (inches).



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Tel: 2723-7782
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