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Quality and engineering support would be meaningless if Mill-Max could not deliver your components on schedule. We work hard to ensure that the integrity of both your products and your schedule will never be compromised.

Mill-Max maintains the largest inventory of stock products in North America to ensure our ability to fill orders rapidly and consistently. The expansive scale of our manufacturing operations ensures that we can meet the requirements of custom component runs quickly, efficiently and on time.

“We found knowledgeable people with a good understanding of quality control – if we have a problem they respond right away.”

–Senior Quality Engineer, Energy & Water Metering Equipment

MAXIMUM SERVICE

Call on Mill-Max and you will find that we will do everything possible to make your job easier. Our newly designed website features the most robust and easy-to-use product search engine in the industry. Responsive customer service and technical support are company hallmarks, and we specialize in quick turnaround quotes, one-hour order confirmation, on-time delivery, free samples and fast prototyping.

Put Mill-Max to the test and see how hard we will work to satisfy your needs. Mill-Max products are sold directly through our sales representative organizations as well as a network of 25 authorized distributors in the U.S. and throughout the world. Maximum satisfaction: it is both our policy and our promise.

“When they make a promise, they keep that promise... when they say they will deliver, I know I can count on it.”

–Senior Purchasing Specialist, CATV/Broadband Equipment Manufacturer



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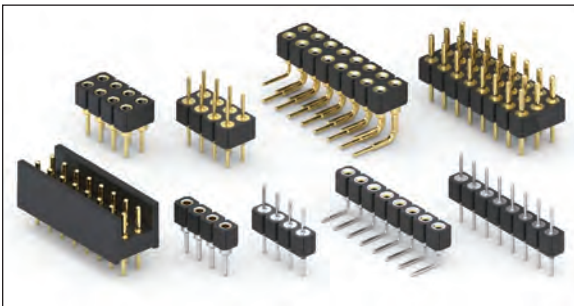
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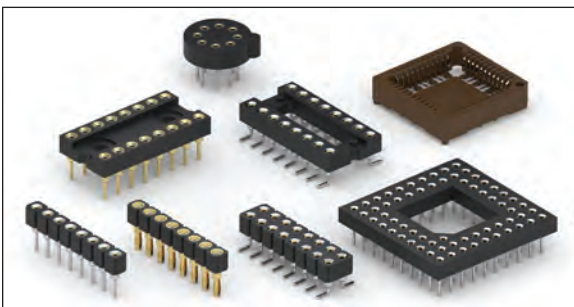
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SPRING-LOADED CONNECTORS





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MILL-MAX SPRING-LOADED CONNECTORS ARE IDEAL FOR A WIDE RANGE OF APPLICATIONS, from portable data acquisition units and mobile communication to medical and military equipment applications. Their unique design can be the perfect solution for many situations where establishing an electrical path between mating points is a challenge, including problematic vibratory environments.

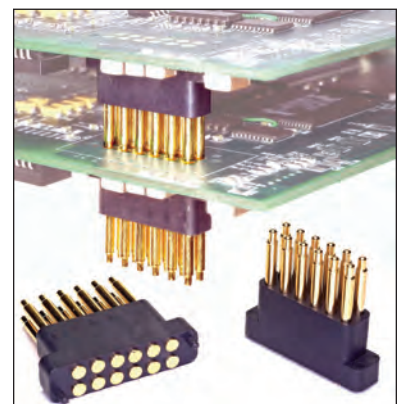
When strategically placed within an assembly and utilized correctly (shielded from over compression and direct side load forces,) spring-loaded connectors provide a reliable connection exceeding a million cycles.

SOME TYPICAL APPLICATIONS INCLUDE:

- The internal battery connection in portable instruments, or as the external battery connection for charging these instruments (docking stations).
- As a method for stacking printed circuit boards in an assembly. Utilizing spring pin connectors is a convenient approach to creating mezzanine-tiered board modules that can be assembled and disassembled quickly.
- Blind-mating applications: The spring pin piston need only make contact with its mating surface. This is typically a land or pad that is larger than the plunger diameter. In situations where the assembly process doesn't allow for visibility, spring pins are the optimum choice.

MILL-MAX SPRING-LOADED CONNECTORS CAN MATE TO THE FOLLOWING SURFACES:

- A conductive input/output pad found on the instrument pack itself.
- A gold-plated land on a circuit board. A hard gold over nickel-plated surface is recommended for the mating surface. This is the same as would be used for the printed circuit fingers associated with card edge connectors.
- Individual Mill-Max gold-plated nail head pins which can be soldered to the mating circuit board to serve as targets.
- Mill-Max Target Connectors which provide a large, flat gold-plated circuit path to the board.



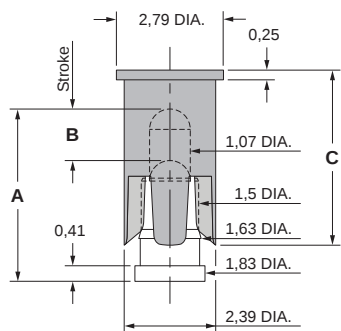
SPRING-LOADED CONNECTORS

SERIES 806 • REMOVABLE PICK & PLACE CAP, SPRING-LOADED PINS • SURFACE MOUNT

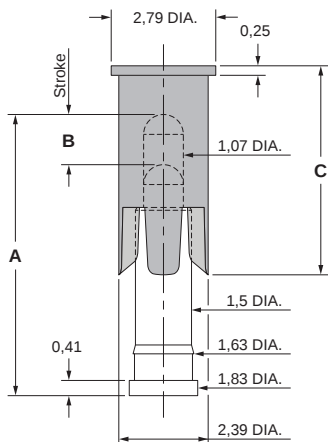


- Surface mount spring-loaded pins with removable pick & place cap are available in nine heights from 3,5 to 7,5 with a rated travel of either 0,5 or 0,7
- Spring pins used in this series are Mill-Max 0900-X and 0907-X (see page 23 for more details)
- The pick & place cap allows individual spring-loaded contacts to be packaged on tape and reel for automated assembly. The caps are easily removed after soldering leaving only the spring pin on the board.
- Pick & place cap material is high temperature thermoplastic suitable for most SMT soldering processes
- Supplied on 16 mm wide carrier tape, 330mm reels; packaging per EIA-481. See below for ordering information

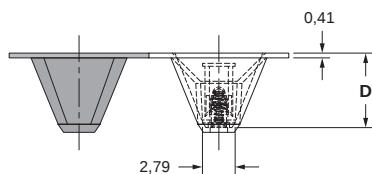
Series 806 (Contact Style 1,2,3,4,10,11)



Series 806 (Contact Style 12,13 & 14)



Series 806 (Tape Pocket Depth)



ORDERING INFORMATION

Series 806 (Tape & Reel Packaged)

806-22-001-30-0XX191

Specify contact style 1-4
Specify contact style 10-14

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Tape Depth (D)	Quantity per Reel
1	3,5	0,5	0,76-1,0	4,57	6,4	780
2	3,94	0,5	0,76-1,0	4,57	6,4	780
3	4,5	0,7	1,27-1,4	4,57	6,4	780
4	5,0	0,7	1,27-1,4	4,57	6,4	780
10	5,51	0,7	1,27-1,4	5,59	7,24	750
11	5,99	0,7	1,27-1,4	5,59	7,24	750
12	6,48	0,7	1,27-1,4	5,59	9,17	550
13	6,99	0,7	1,27-1,4	5,59	9,17	550
14	7,49	0,7	1,27-1,4	5,59	9,17	550

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring (Contact style 1-14): Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 1-14): 25 grams
Spring force @ mid stroke (B/2) (Contact style 1-14): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.

RoHS-2
2011/65/EU



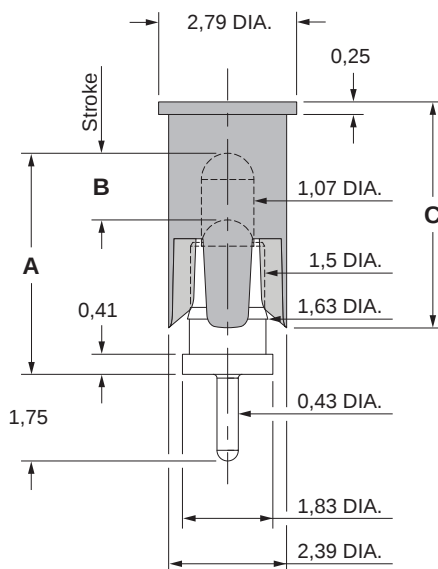
SPRING-LOADED CONNECTORS

SERIES 806 • REMOVABLE PICK & PLACE CAP, SPRING-LOADED PINS • THROUGH-HOLE MOUNT

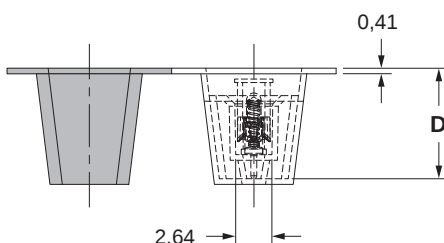


- Through hole mount spring-loaded pins with removable pick & place cap are available in four heights from 3,5 to 5,0 with a rated travel of either 0,5 or 0,7
- Spring pins used in this series are Mill-Max 0906-X (see page 25 for more details)
- The pick & place cap allows individual spring-loaded contacts to be packaged on tape and reel for automated assembly. The caps are easily removed after soldering leaving only the spring pin on the board
- Pick & place cap material is high temperature thermoplastic suitable for most SMT soldering processes
- Supplied on 24 mm wide carrier tape, 330mm reels; packaging per EIA-481. See below for ordering information

Series 806 (Contact Style 1-4)



Series 806 (Tape Pocket Depth)



ORDERING INFORMATION

Series 806 (Tape & Reel Packaged)

806-22-001-10-00X191

Specify contact style 1-4

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Tape Depth (D)	Quantity per Reel
1	3,5	0,5	0,76-1,0	4,57	8,05	640
2	3,94	0,5	0,76-1,0	4,57	8,05	640
3	4,5	0,7	1,27-1,4	4,57	8,05	640
4	5,0	0,7	1,27-1,4	4,57	8,05	640

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel

Spring (Contact style 1-4): Beryllium copper-plated 0,25µm gold

Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 1-4): 25 grams

Spring force @ mid stroke (B/2) (Contact style 1-4): 60 grams

Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

Insulation resistance: 10,000MΩ min.

RoHS-2
2011/65/EU



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SPRING-LOADED CONNECTORS

SERIES 319, 330 • 2,54 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

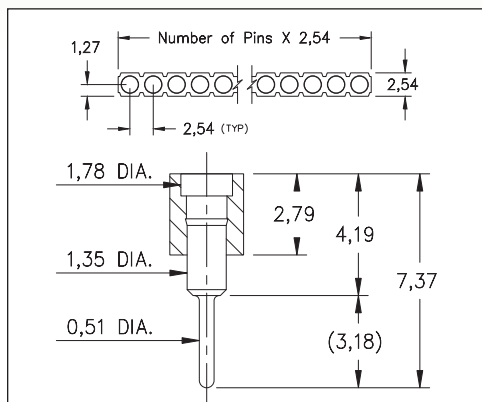


FIG. 1

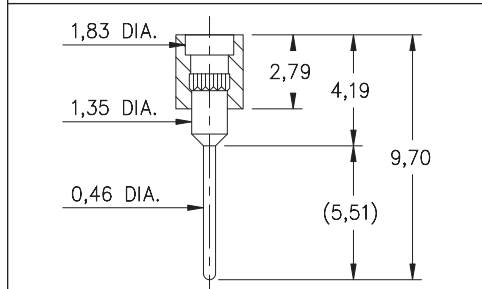


FIG. 2

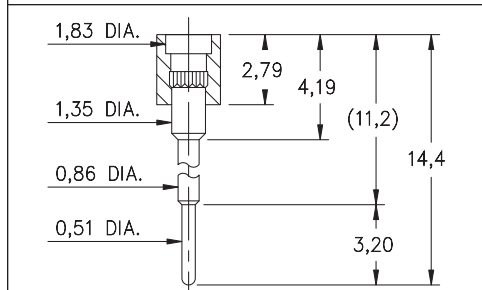


FIG. 3

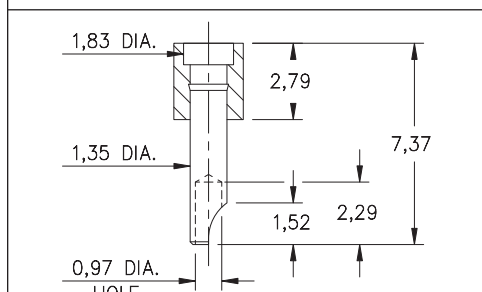
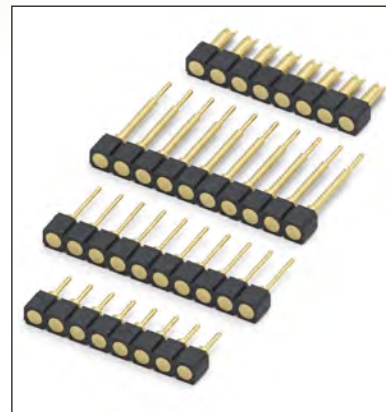


FIG. 4

- Series 319 and 330 Spring Target Connectors, supplied in single row strips. Available in through-hole and wire termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard 1,07 dia. spring pin plungers
- Target connectors use MM #1938, #1940, #1942 and #3024 pins. See page 218 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Series 319...001	Standard Solder Tails
	319-10-1	-00-001000 Specify number of pins 01-64
FIG. 2	Series 319...002	Long Solder Tails
	319-10-1	-00-002000 Specify number of pins 01-64
FIG. 3	Series 319...005	Elevated with Solder Tails
	319-10-1	-00-005000 Specify number of pins 01-64
FIG. 4	Series 330...240	Solder Cups
	330-10-1	-00-240000 Specify number of pins 01-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating 		
10 		
0,25µm Au		

SPRING-LOADED CONNECTORS

SERIES 319, 399 • 2,54 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

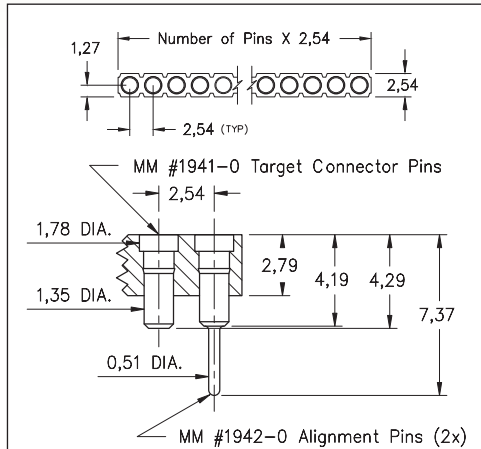
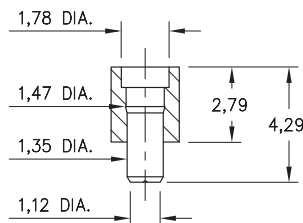
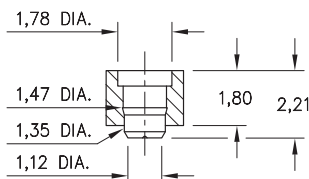


FIG. 1



Coplanarity 0,13. For Pin counts >10 positions, consult Technical Support.

FIG. 2



Coplanarity 0,13. For Pin counts >10 positions, consult Technical Support.

FIG. 3

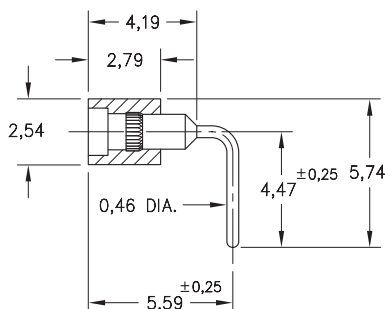
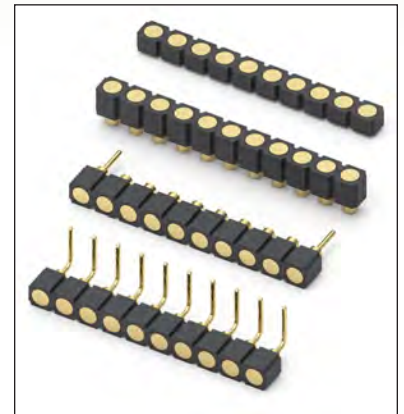


FIG. 4

- Series 319 and 399 Spring Target Connectors, supplied in single row strips. Available in SMT and right angle through-hole termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard 1,07 dia. spring pin plungers
- Target connectors use MM #1940, #1941/1942, #1953 and #1954 pins. See pages 218 & 223.3 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Series 319...041	Surface Mount w/ Alignments Pins
	319-10-1	-30-041000 Specify number of pins 03-64
FIG. 2	Series 319...008	Surface Mount
	319-10-1	-30-008000 Specify number of pins 01-64
FIG. 3	Series 319...054	Low Profile Surface Mount
	319-10-1	-30-054000 Specify number of pins 01-64
FIG. 4	Series 399...008	Right Angle Solder Tails
	399-10-1	-10-008000 Specify number of pins 01-64
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating 		
10 		
0,25µm Au		



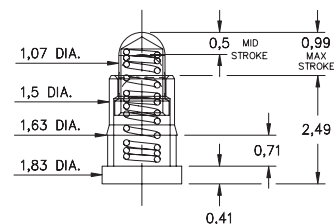
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • SURFACE MOUNT

0900-0

0900-0-15-20-76-14-11-0

"Legacy P/N 0900-0-00-00-00-00-11-0"
Short stroke, Surface mount. Also available
on 16mm wide carrier tape: 2,000 parts per
330mm reel. See pg. 28.2 for Tape & Reel details

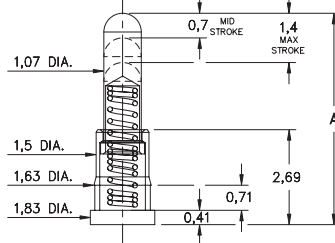


0900-1 → 4,8

72 or 75

0900-X-15-20-7X-14-11-0

Standard stroke, Surface mount. Also available on 16mm
wide carrier tape: 1,700 parts per 330mm reel (0900-1) or
24mm wide carrier tape: 1,100 parts per 330mm reel (0900-2)
and (0900-3). See page 28.2 for Tape & Reel details



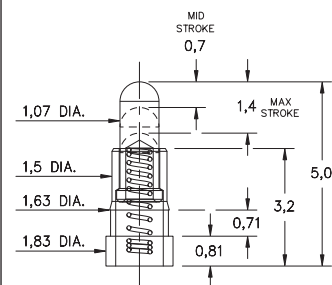
Basic Part Number	Length A
0900-1	4,5
0900-2	5,0
0900-3	5,51
0900-4	5,99
* 0900-8	3,94

* 0900-8 has a 0,5 Mid Stroke & 0,99 Max. Stroke
Order as:
0900-8-15-20-76-14-11-0
"Legacy Part Number"
0900-X-00-00-00-00-11-0

0934

0934-0-15-20-74-14-26-0

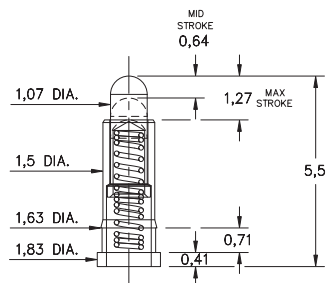
Standard stroke, Surface mount



0936

0936-0-15-20-7X-14-11-0

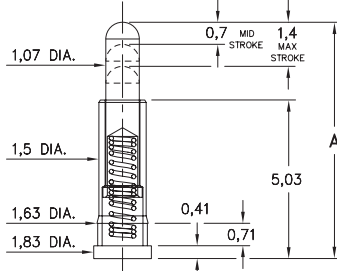
Standard stroke, Surface mount



0907-0 → 9

0907-X-15-20-75-14-11-0

Standard stroke, Surface mount, Mid profile
Also available with insulated sleeve, see page 19.4

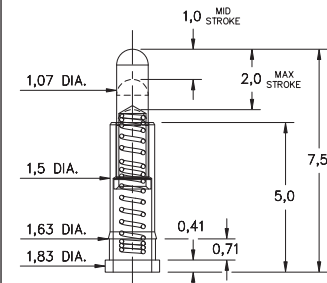


Basic Part Number	Length A
0907-0	6,48
0907-1	6,99
0907-2	7,49
0907-3	8,0
0907-4	8,51
0907-5	8,89
0907-6	9,4
0907-7	9,91
0907-8	10,41
0907-9	10,92

0928

0928-0-15-20-77-14-11-0

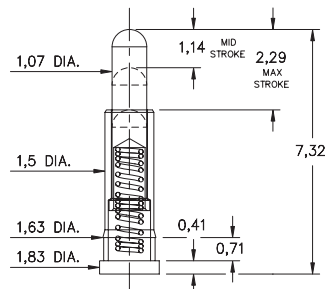
Long stroke, Surface mount



0913

0913-0-15-20-77-14-11-0

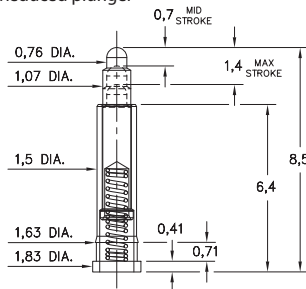
Long stroke, Surface mount, Mid profile



0925

0925-0-15-20-7X-14-11-0

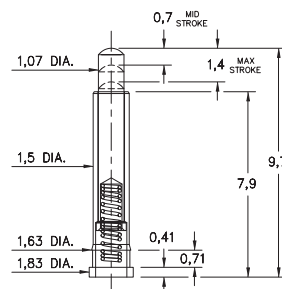
Standard stroke, Surface mount
Reduced plunger



0927

0927-0-15-20-7X-14-11-0

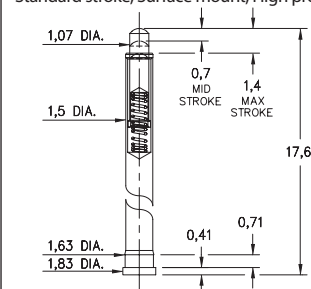
Standard stroke, Surface mount, Mid profile



0905

0905-0-15-20-7X-14-11-0

"Legacy P/N 0905-0-00-00-00-00-11-0"
Standard stroke, Surface mount, High profile



Material Specifications:

Sleeve & Plunger Material: Copper Alloy

Spring Material: Beryllium Copper

Sleeve & Plunger Finish: 0,5µm Gold over Nickel

Spring Finish: 0,25µm Gold over Nickel

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,15

Diameters: ± 0,051

Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles

Current Rating: 2A continuous, 3A peak

Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:

-55/+125° C (discontinuous)

74, 75, 76, 77 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - 7X - 14 - XX - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
74	0,7	1,4	50 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	1,0	60 g	25 g
77	1,14	2,29	60 g	25 g



INDEX

NUMERICAL LISTING AND LOCATION OF MILL-MAX SOCKET ASSEMBLY NUMBERS WITH REFERENCE TO MILL-MAX PINS

MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #	MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
319-10-1XX-30-055000	1955	20.2	395-XX-101-03-380000	8433	151
319-10-1XX-40-080001	1980	22.4	395-XX-101-07-350000	8994	151
321-13-1XX-41-001000	0040-1	69	395-XX-101-34-340000	8993	151
322-XX-1XX-41-001000	0089-2	69	399-XX-1XX-10-003000	1103	46
323-XX-1XX-41-001000	0088-3	69	399-10-1XX-10-007000	1960	20.2
324-XX-1XX-41-002000	0086-4	69	399-10-1XX-10-008000	1940	20.1
326-XX-1XX-41-001000	2601	71	399-XX-1XX-10-009000	5011	46
326-XX-1XX-41-002000	2602	71	399-XX-0XX-21-300000	9930	41
326-XX-1XX-41-003000	2603	71	399-XX-0XX-00-310000	9931	41
327-XX-121-41-002000	1702-2	125	406-XX-2XX-30-068000	0668	49
327-XX-121-41-003000	1703-3	125	406-XX-2XX-30-068001	0668	49
328-XX-1XX-40-020001	2820	87.4	410-XX-2XX-10-001000	1001	134
329-XX-1XX-41-540000	2954	48	410-XX-2XX-10-002000	1001	134
329-10-1XX-00-560000	2956-1	49	410-XX-2XX-41-001000	1001	47,66
330-10-1XX-00-240000	3024	20	410-XX-2XX-41-105000	1005	51
330-10-001-00-770800	3077	87.1	411-XX-2XX-41-001000	0134	66
334-XX-1XX-00-000000	3400	81	411-XX-2XX-41-003000	1103	66.1
334-XX-1XX-00-010000	3401	81	414-XX-2XX-41-117000	1434	49
334-XX-1XX-00-020000	3402	81	415-XX-2XX-41-001000	0501	66
334-XX-1XX-00-050000	3405	81	415-XX-2XX-41-003000	1534	66
334-XX-1XX-00-100000	3410	81	415-XX-2XX-41-004000	0512	45.2
335-XX-1XX-00-160000	3516	78	416-XX-2XX-41-001000	0153-5	68
339-XX-1XX-40-000000	3900	50.1	416-XX-2XX-41-003000	0153-2	68
340-XX-1XX-30-780100	4078	41,49	416-XX-2XX-41-006000	0153-1	68
342-XX-1XX-00-591000	4259-1	82	416-XX-2XX-41-007000	0153-3	68
342-XX-1XX-00-592000	4259-2	82	416-XX-2XX-41-008000	0153-4	68
342-XX-1XX-00-593000	4259-3	82	419-10-2XX-00-001000	1942	21
342-XX-1XX-00-594000	4259-4	82	419-10-2XX-00-002000	1940	21
346-XX-1XX-41-012000	4612	73	419-10-2XX-00-005000	1938	21
346-XX-1XX-41-013000	4613	73	419-10-2XX-00-006000	1948	21.2
349-10-1XX-00-560000	4956-1	59	419-10-2XX-30-007000	1947	21.2
350-XX-1XX-00-001000	0290	52,84	419-10-2XX-30-041000	1941	21.1
350-XX-1XX-00-006000	3404	46	419-10-2XX-30-042000	1941/1942	21.1
350-XX-1XX-00-106000	3404	51	419-10-2XX-30-054000	1954	21.1
350-XX-1XX-00-107000	3404	51	419-10-2XX-30-055000	1955	21.2
351-10-1XX-00-003000	5503	79	421-XX-2XX-41-001000	0040-1	70
351-10-1XX-00-004000	5504	79	422-XX-2XX-41-001000	0089-2	70
351-10-1XX-00-005000	5505	79	423-XX-2XX-41-001000	0088-3	70
351-10-1XX-00-009000	5509	79	424-XX-2XX-41-002000	0086-4	70
351-10-1XX-00-010000	5510	79	426-XX-2XX-41-001000	2601	72
351-10-1XX-00-011000	5511	79	426-XX-2XX-41-002000	2602	72
351-10-1XX-40-002000	5102	50	426-XX-2XX-41-003000	2603	72
353-XX-1XX-00-001000	5301	86	429-XX-2XX-41-540000	2954	48
360-XX-1XX-00-001000	0282	84	429-10-2XX-00-560000	2956-0	49
362-XX-1XX-00-001000	1106-2	86	430-10-2XX-00-240000	3024	21
363-XX-1XX-00-001000	1106-3	86	435-XX-2XX-00-160000	3516	78
364-10-1XX-00-580000	6458	78	442-XX-2XX-00-591000	4259-1	83
370-XX-1XX-00-001000	0700	84	442-XX-2XX-00-592000	4259-2	83
370-10-001-00-070800	7007	87.1	442-XX-2XX-00-593000	4259-3	83
373-XX-1XX-00-001000	0730-3	86	442-XX-2XX-00-594000	4259-4	83
380-XX-1XX-00-001000	8000	48,84	446-XX-2XX-41-012000	4612	74
380-10-0XX-00-002000	3080	47.1	446-XX-2XX-41-013000	4613	74
380-10-001-00-000800	8000	87.1	449-10-2XX-00-560000	4956-1	59
380-XX-1XX-10-003000	3180	47.2	450-XX-2XX-00-001000	0290	52,85
382-XX-1XX-00-001000	8301-2	86	450-XX-2XX-00-006000	3404	47
383-XX-1XX-00-001000	8301-3	86	450-XX-2XX-00-106000	3404	51
388-XX-102-11-740799	8874	152	451-10-2XX-00-003000	5503	80
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451-10-2XX-00-009000	5509	80	714-XX-XXX-31-018000	0552-2	77
451-10-2XX-00-010000	5510	80	714-XX-XXX-41-001000	1401	76
451-10-2XX-00-011000	5511	80	800-XX-0XX-10-001000	7007	54
453-10-2XX-00-001000	5301	87	800-XX-0XX-10-002000	5016	53
460-XX-2XX-00-001000	0282	85	800-XX-0XX-10-004000	3077	62
463-XX-2XX-00-001000	1106-3	87	800-XX-0XX-10-007000	1107	61
464-10-2XX-00-580000	6458	78	800-10-0XX-10-052000	5016	58
470-XX-2XX-00-001000	0700	85	800-XX-0XX-20-001000	5005	54
473-XX-2XX-00-001000	0730-3	87	800-10-0XX-20-201000	5005	64
480-10-2XX-00-001000	8000	48,85	800-10-0XX-30-001000	7007	59
480-10-0XX-00-002000	3080	47.1	800-10-0XX-30-052000	5016	58
483-XX-2XX-00-001000	8301-3	87	800-10-0XX-40-002000	1502	59.1
499-XX-2XX-10-003000	1103/1602	47	800-XX-0XX-61-001000	5601	56
499-10-2XX-10-007000	1958/1960	21.2	800-10-0XX-61-051000	5607	58
499-10-2XX-10-008000	1938/1940	21.1	800-XX-0XX-62-001000	5602	56
499-10-2XX-10-009000	5011/5113	47	801-XX-0XX-10-001000	1304	54
507-10-XXX-XX-XXX437	0737	140	801-XX-0XX-10-002000	1303	53
510-XX-XXX-XX-XXX00X	1001	138	801-XX-0XX-10-003000	1303	52
511-XX-XXX-XX-XXX00X	0134	138	801-XX-0XX-10-004000	1313	62
513-XX-XXX-XX-XXX085	1385	138	801-13-0XX-10-007000	1134	61
514-XX-XXX-XX-XXX034	1434	138	801-XX-0XX-10-012000	1303	53
515-XX-XXX-XX-XXX00X	0501	138	801-XX-0XX-10-013000	1303	52
518-XX-XXX-XX-XXX00X	180X	138	801-43-0XX-10-201000	1304	64
522-XX-XXX-XX-XXX00X	0089-2	138	801-43-0XX-10-212000	1303	64
523-XX-XXX-XX-XXX00X	0088-3	138	801-XX-0XX-20-001000	1305	54
540-10-XXX-XX-XXX448	4048	142	801-43-0XX-20-201000	1305	64
540-10-XXX-XX-XXX454	4054	142	801-43-0XX-30-001000	1304	59
540-10-XXX-XX-XXX498	4098	142	801-XX-0XX-40-002000	1303	59.1
540-44-XXX-17-40000X	N/A	145	801-XX-0XX-61-001000	4614	56
550-XX-XXX-XX-XXX012	5012	140	801-XX-0XX-62-001000	4615	56
551-XX-XXX-XX-XXX003	5503	140	802-XX-0XX-10-001000	7007	55
551-XX-XXX-XX-XXX004	5504	140	802-XX-0XX-10-002000	5016	53
551-XX-XXX-XX-XXX005	5505	140	802-XX-XXX-10-004000	3077	62
579-10-XXX-XX-XXX429	7929	142	802-XX-0XX-10-007000	1107	61
582-11-XXX-XX-XXX414	8214	142	802-10-0XX-10-052000	5016	58
587-10-XXX-XX-XXX437	8737	142	802-XX-0XX-20-001000	5005/5107	55
594-XX-020-01-007032	8857-X	133	802-10-0XX-30-001000	7007	59
599-11-XXX-XX-XXX428	9928	142	802-10-0XX-30-052000	5016	58
599-10-XXX-XX-XXX429	9929	142	802-XX-0XX-61-001000	5601	57
599-11-XXX-XX-XXX453	9953	142	802-10-0XX-61-051000	5607	58
599-XX-XXX-XX-XXX476	9976	140	802-XX-0XX-62-001000	5602	57
605-XX-XXX-11-480000	0548	114	803-XX-XXX-10-001000	1304	55
605-XX-XXX-XX-XXX048	0548	139	803-XX-0XX-10-002000	1303	53
612-XX-XXX-41-001000	0255	112	803-XX-0XX-10-003000	1303	52
612-XX-XXX-41-002000	8855	112	803-XX-XXX-10-004000	1313	62
612-XX-XXX-41-003000	0135	112	803-13-0XX-10-007000	1134	61
612-XX-XXX-41-004000	0132	112	803-XX-XXX-20-001000	1305/1306	55
614-XX-XXX-31-002000	0442	115	803-XX-XXX-30-001000	1304	59
614-XX-XXX-31-007000	1407	114	803-XX-XXX-61-001000	4614	57
614-XX-XXX-31-012000	0552-1	115	803-XX-XXX-62-001000	4615	57
614-XX-XXX-31-018000	0552-2	115	804-10-0XX-10-002000	5016	60
614-XX-XXX-41-001000	1401	113	805-43-0XX-10-012000	1303	60
614-XX-XXX-XX-XXX007	1407	139	807-22-001-10-00X101	0906-X	19.5
614-XX-XXX-XX-XXX012	0552-1	139	807-22-001-10-00X191	0906-X	19.5
614-XX-XXX-XX-XXX0XX	1401	139	807-22-001-10-02X101	0914-X	19.6
712-XX-XXX-41-001000	0255	75	807-22-001-30-00X101	0900-X	19.3
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807-22-001-30-01X191	0907-X	19.4	832-XX-XXX-30-001000	6218	44
808-10-040-10-151000	3501/3502/3503	58.2	832-10-0XX-30-003000	1949	22.2
809-43-040-10-001000	0405/8852/9324	58.2	832-10-0XX-30-003191	1949	22.2
810-22-0XX-40-001101	0916-0	10	832-10-0XX-30-004000	1950	22.2
810-22-0XX-40-005191	7966-0	10.1	832-10-0XX-30-004191	1950	22.2
811-22-0XX-30-00X101	0900-X	07	832-10-0XX-30-052000	3143	45.1
811-22-00X-30-00X191	0900-X	12	833-XX-XXX-10-001000	1802	43
812-22-0XX-30-00X101	0907-X	08	833-10-XXX-10-002000	1802	45.1
812-22-0XX-30-01X101	0907-X/0908-X	11	833-43-XXX-20-001000	1805/3805	45
812-22-00X-30-00X191	0907-X	12	833-XX-XXX-30-001000	1802	44
813-22-0XX-30-00X101	0900-X	07	834-XX-0XX-10-001000	3435	63
813-22-0XX-30-00X191	0900-X	12	835-XX-0XX-10-001000	3435	63
814-22-0XX-30-00X101	0907-X	08	835-XX-0XX-40-030001	3530	87.3
814-22-0XX-30-01X101	0907-X/0908-X	11	836-22-0XX-10-001101	7911-0	19.7
814-22-0XX-30-00X191	0907-X	12	836-22-0XX-30-001101	0911-0	19.2
815-22-0XX-30-001101	0965	06	836-22-0XX-30-001191	0911-0	19.2
815-22-0XX-30-001191	0965	06	837-22-0XX-30-001101	0919-0	9.1
816-22-0XX-10-00X101	0908-X	15	837-22-0XX-30-001191	0919-0	9.1
817-22-0XX-30-001101	0965	06	838-22-XXX-10-001101	7911-0	19.7
817-22-0XX-30-001191	0965	06	838-22-0XX-30-001101	0911-0	19.2
818-22-0XX-10-00X101	0908-X	15	838-22-0XX-30-001191	0911-0	19.2
819-22-0XX-30-001101	0913-0	09	839-22-XXX-30-001101	0919-0	9.1
819-22-0XX-30-001191	0913-0	12.1	839-22-XXX-30-001191	0919-0	9.1
820-22-0XX-30-001101	0913-0	09	850-XX-0XX-10-001000	4006-0	34
820-22-0XX-30-001191	0913-0	12.1	850-XX-0XX-10-003000	3050	35.1
821-22-0XX-10-00X101	0906-X	13	850-XX-0XX-20-001000	4006-1	36
823-22-0XX-10-00X101	0906-X	13	850-XX-0XX-20-003000	3050	35.1
824-22-0XX-00-001000	0933	17	850-XX-0XX-30-001000	4006-0	37
824-22-0XX-00-005000	0947	17.1	850-XX-0XX-30-002000	4006-0	37
825-22-0XX-10-00X101	0914	14	850-10-0XX-40-001000	4006-1	40
826-22-0XX-00-001000	0933	17	851-XX-0XX-10-001000	4890-0	34
826-22-0XX-00-005000	0947	17.1	851-XX-0XX-10-002000	0467	34
827-22-0XX-10-00X101	0914	14	851-XX-0XX-10-003000	1157	35.1
829-22-0XX-20-00X101	0929, 0970	16	851-XX-0XX-10-011000	4890-1	35
830-XX-0XX-10-001000	5012	43	851-XX-0XX-10-021000	4890-2	35
830-10-0XX-10-003000	1951	22.1	851-XX-0XX-20-001000	4890-1	36
830-10-0XX-10-004000	1952	22.1	851-XX-0XX-30-001000	4890-0	37
830-10-0XX-10-005000	3078-0	44.1	851-XX-0XX-30-002000	4890-0	37
830-XX-0XX-20-001000	3790	45	851-XX-0XX-40-001000	4890-1	40
830-10-0XX-20-005000	3078-1	44.1	852-XX-XXX-10-001000	4006-0	34
830-XX-0XX-30-001000	6218	44	852-XX-0XX-10-003000	3050	35.2
830-XX-0XX-30-002000	6218	44	852-XX-XXX-20-001000	4006-1/2	36
830-10-0XX-30-003000	1949	22.1	852-XX-XXX-30-001000	4006-0	37
830-10-0XX-30-003191	1949	22.1	853-XX-XXX-10-001000	4890-0	34
830-10-0XX-30-004000	1950	22.1	853-XX-0XX-10-003000	1157	35.2
830-10-0XX-30-004191	1950	22.1	853-XX-XXX-10-011000	4890-1	35
830-XX-0XX-40-028000	3028	59.1	853-XX-XXX-10-021000	4890-2	35
831-XX-0XX-10-001000	1802	43	853-XX-XXX-20-001000	4890-1/2	36
831-XX-0XX-20-001000	1805	45	853-XX-XXX-30-001000	4890-0	37
831-XX-0XX-30-001000	1802	44	854-22-0XX-10-001101	0950-0	18
831-XX-0XX-30-002000	1802	44	854-22-0XX-20-001101	0985-0	18.1
832-XX-XXX-10-001000	5012	43	854-22-0XX-20-601101	0985-0	18.1
832-10-0XX-10-003000	1951	22.2	854-22-0XX-30-001101	0951-0	19
832-10-0XX-10-004000	1952	22.2	854-22-0XX-40-001101	0985-0	18.2
832-10-0XX-10-005000	3078-0	44.1	854-22-0XX-40-601101	0985-0	18.2
832-10-0XX-10-052000	3143	45.1	855-22-0XX-10-001101	0950-0	18
832-XX-XXX-20-001000	3790/3796	45	855-22-0XX-30-001101	0951-0	19



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856-10-0XX-10-051000	1933	22	940-44-XXX-24-000000	N/A	144
856-10-0XX-20-001000	1931	21.3	999-11-XXX-10-000000	N/A	152
856-10-0XX-20-002000	1831	21.3			
856-10-0XX-30-002000	1936	21.4			
856-10-0XX-30-051000	1935	22			
856-10-0XX-40-001000	1931	21.3			
856-10-0XX-40-002000	1831	21.3			
857-10-0XX-10-002000	1934	21.4			
857-10-0XX-10-051000	1933	22			
857-10-0XX-30-002000	1936	21.4			
857-10-0XX-30-051000	1935	22			
858-10-0XX-10-001000	1969	19.76			
858-10-0XX-10-002000	1969-1	19.77			
858-10-0XX-10-011000	1969	19.76			
858-10-0XX-10-012000	1969-1	19.77			
858-10-0XX-30-001000	1959	19.76			
858-10-0XX-30-002000	1959-1	19.77			
858-10-0XX-30-011000	1959	19.76			
858-10-0XX-30-012000	1959-1	19.77			
858-10-0XX-30-601000	1959	19.76			
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858-10-0XX-30-611000	1959	19.76			
858-10-0XX-30-612000	1959-1	19.77			
860-10-0XX-10-002000	3039	33			
860-10-0XX-30-002000	3039	33.1			
861-13-0XX-10-002000	0439	33			
861-13-0XX-30-002000	0439	33.1			
862-XX-121-00-180000	6218	127			
862-10-121-30-180000	6218	128			
868-10-0XX-00-001000	1968	19.78			
868-10-0XX-00-002000	1968-1	19.79			
868-10-0XX-00-011000	1968	19.78			
868-10-0XX-00-012000	1968-1	19.79			
868-22-0XX-00-001101	0868	19.78			
868-22-0XX-00-011101	0868	19.78			
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871-XX-0XX-20-001000	1805	42			
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888-93-005-00-001000	5070/5084	58.1			
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896-43-004-90-000000	N/A	148			
896-43-005-40-100001	N/A	150			
896-43-008-90-000000	N/A	148			
896-46-009-90-300000	N/A	147			
897-43-004-90-000000	N/A	148			
897-43-005-00-100001	N/A	150			
897-46-009-90-300000	N/A	147			
897-10-010-00-300002	N/A	149			
897-10-010-40-300002	N/A	149			
898-43-024-00-310002	N/A	149.3			
898-43-024-90-310000	N/A	149.1			
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0067	198	0316	183	0385	170	0555	163	0900	23	1033	164
0068	198	0317	183	0387	192	0556	166	0901	25	1034	198
0086	198	0318	226	0388	194	0558	163	0903	167	1035	198
0088	198	0319	181	0389	194	0560	160	0904	167	1036	198
0089	198	0321	197	0390	194	0566	157	0905	23	1038	167
0132	165	0322	182	0391	192	0569	158	0906	25	1040	198
0133	165	0323	182	0393	192	0574	161	0907	23	1045	198
0134	165	0324	182	0394	192	0577	196	0908	25	1047	199
0135	165	0325	182	0395	193	0579	159	0910	26	1052	201
0136	166	0326	174	0396	174	0600	215	0911	24	1053	201
0137	166	0327	183	0397	173	0613	159	0912	244	1064	228
0138	166	0328	183	0398	173	0616	192	0913	23	1065	163
0139	166	0329	184	0399	177	0660	163	0914	25	1066	163
0141	166	0330	177	0400	179	0664	174	0915	211	1067	211
0145	166	0331	181	0401	180	0665	163	0919	23.1	1068	228
0146	166	0332	197	0405	182	0666	164	0921	24	1070	228
0147	165	0333	183	0407	175	0667	163	0922	27	1071	228
0148	166	0334	183	0415	175	0668	164	0925	23	1072	228
0149	162	0335	179	0433	188	0669	164	0926	24	1083	227
0152	166	0336	182	0434	188	0670	164	0927	23	1090	227
0153	167	0337	197	0435	188	0671	161	0928	23	1092	228
0156	165	0338	172	0436	188	0672	168	0929	25	1093	228
0240	168	0339	172	0439	156	0673	164	0930	25	1094	225
0252	164	0340	183	0442	157	0675	163	0932	25	1095	226
0253	164	0341	164	0444	199	0676	164	0933	27	1096	228
0255	165	0342	188	0445	199	0677	163	0934	23	1097	226
0257	211	0343	184	0447	166	0678	164	0936	23	1103	166
0259	218	0344	182	0461	158	0679	163	0937	27	1104	168
0265	216	0345	183	0462	160	0680	162	0940	219	1105	190
0270	216	0347	184	0463	160	0682	163	0947	27	1106	228
0272	216	0348	182	0464	156	0697	164	0952	211	1107	216
0273	175	0349	182	0466	160	0700	216	0956	27	1109	165
0275	216	0350	193	0467	158	0703	161	0959	24	1110	225
0279	177	0351	183	0468	161	0707	161	0962	27	1122	228
0280	200	0353	197	0477	162	0712	194	0964	23.1	1124	225
0281	200	0354	187	0478	162	0714	193	0965	24	1130	210
0282	216	0355	187	0479	197	0716	191	0967	23.1	1134	177
0284	175	0356	184	0489	160	0720	185	0973	27	1140	223.3
0285	175	0357	183	0490	192	0722	180	0977	24	1147	159
0286	218	0358	184	0491	192	0730	228	0978	27	1160	223.3
0287	175	0359	184	0492	189	0739	185	0980	24	1178	223.3
0290	215	0360	184	0493	192	0740	185	0985	27	1179	207
0291	175	0362	189	0496	190	0760	191	0990	26	1210	225
0292	173	0363	189	0498	168	0778	193	0995	221	1212	226
0293	175	0364	189	0501	162	0814	184	0997	26	1213	226
0294	173	0365	189	0504	212	0850	28	1001	165	1214	226
0295	173	0366	189	0505	212	0851	28	1005	166	1215	225
0297	173	0367	189	0507	171.1	0852	28.1	1010	225	1216	226
0298	174	0368	190	0512	161	0853	28	1011	225	1221	225
0300	177	0370	192	0520	223	0854	28	1012	225	1222	225
0301	177	0372	189	0522	211	0855	28	1013	166	1261	167
0303	175	0373	183	0529	156	0856	28	1020	225	1267	210
0305	177	0375	197	0531	171.1	0858	28	1021	225	1302	226
0306	175	0376	197	0542	211	0859	28	1022	225	1303	180
0307	168	0378	172	0548	157	0861	28.1	1023	171	1304	177

