

## Solder Wire SAC305 No-Clean with 1.2% Flux Core 50g Spool

### Product Highlights

**No-Clean Water-Washable** Synthetic Flux Core

The clear, non-corrosive, non-conductive residue is meant to be left on the board. Residues that do remain are water soluble if you want to remove them. Clean with hot water at 60°C (140°F) minimum.

1.2% flux core

Halogen content: None

**RoHS 3 and REACH compliant**

**ULTRA THIN SERIES**

### Specifications

|                      |                                   |
|----------------------|-----------------------------------|
| Alloy:               | Sn96.5/Ag3.0/Cu0.5                |
| Wire Diameter:       | 0.006" (0.15mm)                   |
| Flux Type:           | No-Clean Water-Washable Synthetic |
| Flux Classification: | ROL0                              |
| Melting Point:       | 217-220°C (423-428°F)             |
| Packaging:           | 50g (1.8oz) spool                 |
| Shelf Life:          | >60 months                        |

### Test Results

| Test J-STD-004 or other requirements as stated         | Test Requirement                                   | Result                                                                                             |
|--------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Copper Mirror                                          | IPC-TM-650: 2.3.32                                 | L: No breakthrough                                                                                 |
| Corrosion                                              | IPC-TM-650: 2.6.15                                 | L: No corrosion                                                                                    |
| Quantitative Halides                                   | IPC-TM-650: 2.3.28.1                               | L: <0.05%                                                                                          |
| Electrochemical Migration                              | IPC-TM-650: 2.6.14.1                               | L: <1 decade drop (No-clean)                                                                       |
| Surface Insulation Resistance 85°C, 85% RH @ 168 Hours | IPC-TM-650: 2.6.3.7                                | L: ≥100MΩ (No-clean)                                                                               |
| Visual                                                 | IPC-TM-650: 3.4.2.5                                | Clear and free from precipitation                                                                  |
| Conflict Minerals Compliance                           | Electronic Industry Citizenship Coalition (EICC)   | Compliant                                                                                          |
| REACH Compliance                                       | Articles 33 and 67 of Regulation (EC) No 1907/2006 | Contains no substance >0.1% w/w that is listed as a SVHC or restricted for use in solder materials |

### Conforms to the following Industry Standards:

|                                                                             |     |
|-----------------------------------------------------------------------------|-----|
| J-STD-004B, Amendment 1 (Solder Fluxes):                                    | Yes |
| J-STD-006C, Amendments 1 & 2 (Solder Alloys and Fluxed/Non-Fluxed Solders): | Yes |
| RoHS 3 Directive (EU) 2015/863:                                             | Yes |

## ChipQuik® Solder Wire Orderable Part Numbers:

| Flux Core                                                                                                     | Alloy         | Melting Point         | Diameter       | Size         | Orderable Part Number |
|---------------------------------------------------------------------------------------------------------------|---------------|-----------------------|----------------|--------------|-----------------------|
| No-Clean Water-Washable Synthetic Flux Core 2.2%<br><br>(Except .006" and .008" diameter wire which are 1.2%) | Sn63/Pb37     | 183°C (361°F)         | .015" (0.38mm) | 100g (3.5oz) | SMDSW.015 100g        |
|                                                                                                               |               |                       | .020" (0.5mm)  | 0.4 oz       | SMDSW.020 .4OZ        |
|                                                                                                               |               |                       |                | 1 oz         | SMDSW.020 1OZ         |
|                                                                                                               |               |                       |                | 2 oz         | SMDSW.020 2OZ         |
|                                                                                                               |               |                       |                | 4 oz         | SMDSW.020 4OZ         |
|                                                                                                               |               |                       |                | 1/2 lb       | SMDSW.020 8OZ         |
|                                                                                                               |               |                       |                | 1 lb         | SMDSW.020 1LB         |
|                                                                                                               |               |                       | .031" (0.8mm)  | 0.7 oz       | SMDSW.031 .7OZ        |
|                                                                                                               |               |                       |                | 1 oz         | SMDSW.031 1OZ         |
|                                                                                                               |               |                       |                | 2 oz         | SMDSW.031 2OZ         |
|                                                                                                               |               |                       |                | 4 oz         | SMDSW.031 4OZ         |
|                                                                                                               |               |                       |                | 1/2 lb       | SMDSW.031 8OZ         |
|                                                                                                               |               |                       |                | 1 lb         | SMDSW.031 1LB         |
|                                                                                                               | Sn60/Pb40     | 183-188°C (361-370°F) | .015" (0.38mm) | 100g (3.5oz) | SMD2SW.015 100g       |
|                                                                                                               |               |                       | .020" (0.5mm)  | 0.4 oz       | SMD2SW.020 .4OZ       |
|                                                                                                               |               |                       |                | 1 oz         | SMD2SW.020 1OZ        |
|                                                                                                               |               |                       |                | 2 oz         | SMD2SW.020 2OZ        |
|                                                                                                               |               |                       |                | 4 oz         | SMD2SW.020 4OZ        |
|                                                                                                               |               |                       |                | 1/2 lb       | SMD2SW.020 8OZ        |
|                                                                                                               |               |                       |                | 1 lb         | SMD2SW.020 1LB        |
|                                                                                                               |               |                       | .031" (0.8mm)  | 0.7 oz       | SMD2SW.031 .7OZ       |
|                                                                                                               |               |                       |                | 1 oz         | SMD2SW.031 1OZ        |
|                                                                                                               |               |                       |                | 2 oz         | SMD2SW.031 2OZ        |
|                                                                                                               |               |                       |                | 4 oz         | SMD2SW.031 4OZ        |
|                                                                                                               |               |                       |                | 1/2 lb       | SMD2SW.031 8OZ        |
|                                                                                                               |               |                       |                | 1 lb         | SMD2SW.031 1LB        |
|                                                                                                               | Sn62/Pb36/Ag2 | 179°C (354°F)         | .015" (0.38mm) | 100g (3.5oz) | SMD3SW.015 100g       |
|                                                                                                               |               |                       | .020" (0.5mm)  | 0.4 oz       | SMD3SW.020 .4OZ       |
|                                                                                                               |               |                       |                | 1 oz         | SMD3SW.020 1OZ        |
|                                                                                                               |               |                       |                | 2 oz         | SMD3SW.020 2OZ        |
|                                                                                                               |               |                       |                | 4 oz         | SMD3SW.020 4OZ        |
|                                                                                                               |               |                       |                | 1/2 lb       | SMD3SW.020 8OZ        |
|                                                                                                               |               |                       |                | 1 lb         | SMD3SW.020 1LB        |
|                                                                                                               |               |                       | .031" (0.8mm)  | 0.7 oz       | SMD3SW.031 .7OZ       |
|                                                                                                               |               |                       |                | 1 oz         | SMD3SW.031 1OZ        |
|                                                                                                               |               |                       |                | 2 oz         | SMD3SW.031 2OZ        |
|                                                                                                               |               |                       |                | 4 oz         | SMD3SW.031 4OZ        |
|                                                                                                               |               |                       |                | 1/2 lb       | SMD3SW.031 8OZ        |
|                                                                                                               |               |                       |                | 1 lb         | SMD3SW.031 1LB        |

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## ChipQuik® Solder Wire Orderable Part Numbers:

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| Flux Core                                                                                                     | Alloy              | Melting Point         | Diameter        | Size         | Orderable Part Number |
|---------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|-----------------|--------------|-----------------------|
| No-Clean Water-Washable Synthetic Flux Core 2.2%<br><br>(Except .006" and .008" diameter wire which are 1.2%) | Sn96.5/Ag3.0/Cu0.5 | 217-220°C (423-428°F) | .006" (0.15mm)  | 50g (1.8oz)  | SMDSWLF.006 50g       |
|                                                                                                               |                    |                       | .008" (0.20mm)  | 50g (1.8oz)  | SMDSWLF.008 50g       |
|                                                                                                               |                    |                       | .015" (0.38mm)  | 0.3 oz       | SMDSWLF.015 .3OZ      |
|                                                                                                               |                    |                       |                 | 1 oz         | SMDSWLF.015 1OZ       |
|                                                                                                               |                    |                       |                 | 2 oz         | SMDSWLF.015 2OZ       |
|                                                                                                               |                    |                       |                 | 4 oz         | SMDSWLF.015 4OZ       |
|                                                                                                               |                    |                       |                 | 1/2 lb       | SMDSWLF.015 8OZ       |
|                                                                                                               |                    |                       |                 | 1 lb         | SMDSWLF.015 1LB       |
|                                                                                                               |                    |                       | .020" (0.5mm)   | 0.4 oz       | SMDSWLF.020 .4OZ      |
|                                                                                                               |                    |                       |                 | 1 oz         | SMDSWLF.020 1OZ       |
|                                                                                                               |                    |                       |                 | 2 oz         | SMDSWLF.020 2OZ       |
|                                                                                                               |                    |                       |                 | 4 oz         | SMDSWLF.020 4OZ       |
|                                                                                                               |                    |                       |                 | 1/2 lb       | SMDSWLF.020 8OZ       |
|                                                                                                               |                    |                       |                 | 1 lb         | SMDSWLF.020 1LB       |
|                                                                                                               |                    |                       | .031" (0.8mm)   | 0.7 oz       | SMDSWLF.031 .7OZ      |
|                                                                                                               |                    |                       |                 | 1 oz         | SMDSWLF.031 1OZ       |
|                                                                                                               |                    |                       |                 | 2 oz         | SMDSWLF.031 2OZ       |
|                                                                                                               |                    |                       |                 | 4 oz         | SMDSWLF.031 4OZ       |
|                                                                                                               |                    |                       |                 | 1/2 lb       | SMDSWLF.031 8OZ       |
|                                                                                                               |                    |                       |                 | 1 lb         | SMDSWLF.031 1LB       |
|                                                                                                               | Sn99.3/Cu0.7       | 227°C (441°F)         | .012" (0.3mm)   | 100g (3.5oz) | SMD2SWLF.012 100g     |
|                                                                                                               |                    |                       | .015" (0.38mm)  | 0.3 oz       | SMD2SWLF.015 .3OZ     |
|                                                                                                               |                    |                       |                 | 1 oz         | SMD2SWLF.015 1OZ      |
|                                                                                                               |                    |                       |                 | 2 oz         | SMD2SWLF.015 2OZ      |
|                                                                                                               |                    |                       |                 | 4 oz         | SMD2SWLF.015 4OZ      |
|                                                                                                               |                    |                       |                 | 1/2 lb       | SMD2SWLF.015 8OZ      |
|                                                                                                               |                    |                       |                 | 1 lb         | SMD2SWLF.015 1LB      |
|                                                                                                               |                    |                       | .020" (0.5mm)   | 0.4 oz       | SMD2SWLF.020 .4OZ     |
|                                                                                                               |                    |                       |                 | 1 oz         | SMD2SWLF.020 1OZ      |
|                                                                                                               |                    |                       |                 | 2 oz         | SMD2SWLF.020 2OZ      |
|                                                                                                               |                    |                       |                 | 4 oz         | SMD2SWLF.020 4OZ      |
|                                                                                                               |                    |                       |                 | 1/2 lb       | SMD2SWLF.020 8OZ      |
|                                                                                                               |                    |                       |                 | 1 lb         | SMD2SWLF.020 1LB      |
|                                                                                                               |                    |                       | .031" (0.8mm)   | 0.7 oz       | SMD2SWLF.031 .7OZ     |
|                                                                                                               |                    |                       |                 | 1 oz         | SMD2SWLF.031 1OZ      |
|                                                                                                               |                    |                       |                 | 2 oz         | SMD2SWLF.031 2OZ      |
|                                                                                                               |                    |                       |                 | 4 oz         | SMD2SWLF.031 4OZ      |
|                                                                                                               |                    |                       |                 | 1/2 lb       | SMD2SWLF.031 8OZ      |
|                                                                                                               |                    |                       |                 | 1 lb         | SMD2SWLF.031 1LB      |
| Solid Wire (No Flux)                                                                                          | Sn42/Bi57/Ag1      | 138°C (281°F)         | .030" (0.762mm) | 32 feet      | SMDSWLTLFP32          |
|                                                                                                               | In100              | 157°C (315°F)         | .031" (0.8mm)   | 10 feet      | SMDIN100              |
|                                                                                                               | In52/Sn48          | 118°C (244°F)         | .031" (0.8mm)   | 10 feet      | SMDIN52SN48           |
|                                                                                                               | In97/Ag3           | 143°C (289°F)         | .031" (0.8mm)   | 10 feet      | SMDIN97AG3            |

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