

Material Declaration for M80-4E1XXXXF1

| Product Information | |
|-----------------------|-------------------------|
| Part Number: | M80-4E1XX05F1 |
| Part Description: | 2mm Female Crimp Kit |
| Part Weight (g): | (0.111 * XX) + 0.727 |
| Process Data | |
| Peak Reflow (Deg. C) | n/a |
| Termination Finish | Gold over Nickel/Copper |
| RoHS Compliant? (Y/N) | Yes |


| Homogeneous Material Location | Weight (g) | Tolerance | Substance Name | CAS # | |
|-----------------------------------|--------------------------------------|----------------------|-----------------------------------|---------------------|-----------|
| Contact Shell - Brass | 0.0426 * XX | 2% | Copper | 7440-50-8 | |
| | 0.0253 * XX | 1% | Zinc | 7440-66-6 | |
| | 0.00139 * XX | 0.5% | Lead | 7439-92-1 | |
| | 0 | (0.000139 * XX)g max | Iron (impurity only) | 7439-89-6 | |
| | 0 | (0.000139 * XX)g max | Tin (impurity only) | 7440-31-5 | |
| | 0 | (0.000208 * XX)g max | Nickel (impurity only) | 7440-02-0 | |
| Contact Shell - Plating | 0 | (0.000035 * XX)g max | Aluminium (impurity only) | 7429-90-5 | |
| | 0 | (0.000347 * XX)g max | Other Impurities | | |
| | 0.000277 * XX | 5% | Gold | 7440-57-5 | |
| | 0.000684 * XX | 10% | Nickel | 7440-02-0 | |
| Contact Clip - Beryllium Copper | 0.000571 * XX | 10% | Copper | 7440-50-8 | |
| | 0.00207 * XX | 1% | Copper | 7440-50-8 | |
| | 0.00004 * XX | 0.5% | Beryllium | 7440-41-7 | |
| Contact Clip - Plating | 0 | (0.000006 * XX)g max | Nickel (impurity only) | 7440-02-0 | |
| | 0 | (0.000006 * XX)g max | Cobalt (impurity only) | 7440-48-4 | |
| | 0 | (0.000004 * XX)g max | Iron (impurity only) | 7439-89-6 | |
| | 0 | (0.000004 * XX)g max | Aluminium (impurity only) | 7429-90-5 | |
| | 0 | (0.000004 * XX)g max | Silicon (impurity only) | 7440-21-3 | |
| | 0 | (0.000011 * XX)g max | Other Impurities | | |
| | 0.000057 * XX | 10% | Nickel | 7440-02-0 | |
| | 0.000006 * XX | 5% | Gold | 7440-57-5 | |
| | Jackscrew Circlips - Stainless Steel | 0.0164 | 10% | Iron | 7439-89-6 |
| | | 0.0033 | 4% | Chromium (Metallic) | 7440-47-3 |
| 0.0002 | | 4% | Nickel | 7440-02-0 | |
| 0.000078 | | 0.8% | Copper | 7440-50-8 | |
| 0.000004 | | 0.5% | Sulphur | 7704-34-9 | |
| 0 | | 0.000078g max | Carbon (impurity only) | 7440-44-0 | |
| 0 | | 0.0002g max | Silicon (impurity only) | 7440-21-3 | |
| 0 | | 0.0003g max | Manganese (impurity only) | 7439-96-5 | |
| 0 | | 0.000008g max | Phosphorus (impurity only) | 7723-14-0 | |
| 0 | | 0.00021g max | Molybdenum (impurity only) | 7439-98-7 | |
| Jackscrew Bolts - Stainless Steel | 0.4 | 10% | Iron | 7439-89-6 | |
| | 0.099 | 4% | Chromium (Metallic) | 7440-47-3 | |
| | 0.0495 | 4% | Nickel | 7440-02-0 | |
| | 0.00385 | 0.8% | Copper | 7440-50-8 | |
| | 0.00137 | 0.5% | Sulphur | 7704-34-9 | |
| | 0 | 0.00066g max | Carbon (impurity only) | 7440-44-0 | |
| | 0 | 0.0055g max | Silicon (impurity only) | 7440-21-3 | |
| | 0 | 0.0011g max | Manganese (impurity only) | 7439-96-5 | |
| | 0 | 0.00033g max | Phosphorus (impurity only) | 7723-14-0 | |
| | 0 | 0.0055g max | Molybdenum (impurity only) | 7439-98-7 | |
| Moulding (total weight) | 0 | 0.0011g max | Niobium (impurity only) | 7440-03-1 | |
| | 0 | 0.00055g max | Titanium (impurity only) | 7440-32-6 | |
| | (0.0385 * XX) + 0.153 | 10% | 30% Glass-Filled PPS | | |
| Containing: | (0.027 * XX) + 0.107 | 10% | PPS | 26125-40-6 | |
| Does not contain: | (0.0116 * XX) + 0.0459 | 10% | 30% Glass Fibre | 65997-17-3 | |
| | | | Antimony | | |
| | | | Other Brominated Flame Retardants | | |

Material Declaration for M80-4E1XXXXF1

| Product Information | |
|-----------------------|-----------------------------|
| Part Number: | M80-4E1XX42F1 |
| Part Description: | 2mm Female Crimp Kit |
| Part Weight (g): | (0.113 * XX) + 0.727 |
| Process Data | |
| Peak Reflow (Deg. C) | n/a |
| Termination Finish | 100% Tin over Nickel/Copper |
| RoHS Compliant? (Y/N) | Yes |

Note: Tin plating is subject to 1,000ppm max Lead impurity.

| Homogeneous Material Location | Weight (g) | Tolerance | Substance Name | CAS # |
|--------------------------------------|------------------------|--------------------------|-----------------------------------|------------|
| Contact Shell - Brass | 0.0426 * XX | 2% | Copper | 7440-50-8 |
| | 0.0253 * XX | 1% | Zinc | 7440-66-6 |
| | 0.00139 * XX | 0.5% | Lead | 7439-92-1 |
| | 0 | (0.000139 * XX)g max | Iron (impurity only) | 7439-89-6 |
| | 0 | (0.000139 * XX)g max | Tin (impurity only) | 7440-31-5 |
| | 0 | (0.000208 * XX)g max | Nickel (impurity only) | 7440-02-0 |
| Contact Shell - Plating | 0 | (0.000035 * XX)g max | Aluminium (impurity only) | 7429-90-5 |
| | 0 | (0.000347 * XX)g max | Other Impurities | |
| | 0.0015 * XX | 5% | Tin | 7440-31-5 |
| | 0.000684 * XX | 10% | Nickel | 7440-02-0 |
| | 0.000457 * XX | 10% | Copper | 7440-50-8 |
| | | | | |
| Contact Clip - Beryllium Copper | 0.00207 * XX | 1% | Copper | 7440-50-8 |
| | 0.00004 * XX | 0.5% | Beryllium | 7440-41-7 |
| | 0 | (0.000006 * XX)g max | Nickel (impurity only) | 7440-02-0 |
| | 0 | (0.000006 * XX)g max | Cobalt (impurity only) | 7440-48-4 |
| | 0 | (0.000004 * XX)g max | Iron (impurity only) | 7439-89-6 |
| | 0 | (0.000004 * XX)g max | Aluminium (impurity only) | 7429-90-5 |
| | 0 | (0.000004 * XX)g max | Silicon (impurity only) | 7440-21-3 |
| | 0 | (0.000011 * XX)g max | Other Impurities | |
| | 0.000057 * XX | 10% | Nickel | 7440-02-0 |
| | 0.000006 * XX | 5% | Gold | 7440-57-5 |
| | | | | |
| Jackscrew Circlips - Stainless Steel | 0.0164 | 10% | Iron | 7439-89-6 |
| | 0.0033 | 4% | Chromium (Metallic) | 7440-47-3 |
| | 0.0002 | 4% | Nickel | 7440-02-0 |
| | 0.000078 | 0.8% | Copper | 7440-50-8 |
| | 0.000004 | 0.5% | Sulphur | 7704-34-9 |
| | 0 | 0.000078g max | Carbon (impurity only) | 7440-44-0 |
| | 0 | 0.0002g max | Silicon (impurity only) | 7440-21-3 |
| | 0 | 0.0003g max | Manganese (impurity only) | 7439-96-5 |
| | 0 | 0.000008g max | Phosphorus (impurity only) | 7723-14-0 |
| | 0 | 0.00021g max | Molybdenum (impurity only) | 7439-98-7 |
| | | | | |
| Jackscrew Bolts - Stainless Steel | 0.4 | 10% | Iron | 7439-89-6 |
| | 0.099 | 4% | Chromium (Metallic) | 7440-47-3 |
| | 0.0495 | 4% | Nickel | 7440-02-0 |
| | 0.00385 | 0.8% | Copper | 7440-50-8 |
| | 0.00137 | 0.5% | Sulphur | 7704-34-9 |
| | 0 | 0.00066g max | Carbon (impurity only) | 7440-44-0 |
| | 0 | 0.0055g max | Silicon (impurity only) | 7440-21-3 |
| | 0 | 0.0011g max | Manganese (impurity only) | 7439-96-5 |
| | 0 | 0.00033g max | Phosphorus (impurity only) | 7723-14-0 |
| | 0 | 0.0055g max | Molybdenum (impurity only) | 7439-98-7 |
| | 0 | 0.0011g max | Niobium (impurity only) | 7440-03-1 |
| 0 | 0.00055g max | Titanium (impurity only) | 7440-32-6 | |
| | | | | |
| Moulding (total weight) | (0.0385 * XX) + 0.153 | 10% | 30% Glass-Filled PPS | |
| Containing: | (0.027 * XX) + 0.107 | 10% | PPS | 26125-40-6 |
| | (0.0116 * XX) + 0.0459 | 10% | 30% Glass Fibre | 65997-17-3 |
| Does not contain: | | | Antimony | |
| | | | Other Brominated Flame Retardants | |

Prepared by: 

Martin J Perry, BSc(Eng) MSc CEng MIET
Compliance Specialist
ComplianceTeam@harwin.co.uk

On behalf of: 