

Material Declaration for M80-5L1XXXXMD

| Product Information | |
|---------------------|----------------------|
| Part Number: | M80-5L1XX05MD |
| Part Description: | 2mm Horiz Datamate |
| Part Weight (g): | (0.045 * XX) + 1.634 |

| Process Data | |
|-----------------------|------------------|
| Peak Reflow (Deg. C) | 260°C for 10 sec |
| Termination Finish | Gold over Nickel |
| RoHS Compliant? (Y/N) | Yes |

| Homogeneous Material Location | Weight (g) | Tolerance | Substance Name | CAS # |
|-----------------------------------|-------------------------|----------------------|-----------------------------------|------------|
| Contacts - Phosphor Bronze | 0.0207 * XX | 5% | Copper | 7440-50-8 |
| | 0.0011 * XX | 2% | Tin | 7440-31-5 |
| | 0.000042 * XX | 0.5% | Phosphorus | 7723-14-0 |
| | 0 | (0.000066 * XX)g max | Zinc (impurity only) | 7440-66-6 |
| | 0 | (0.000022 * XX)g max | Iron (impurity only) | 7439-89-6 |
| Contacts - Plating | 0 | (0.000011 * XX)g max | Lead (impurity only) | 7439-92-1 |
| | 0 | (0.00011 * XX)g max | Other Impurities | |
| | 0.000289 * XX | 5% | Gold | 7440-57-5 |
| | 0.000226 * XX | 10% | Nickel | 7440-02-0 |
| | | | | |
| Jackscrews - Stainless Steel | 0.639 | 5% | Iron | 7439-89-6 |
| | 0.158 | 2% | Chromium (Metallic) | 7440-47-3 |
| | 0.0791 | 2% | Nickel | 7440-02-0 |
| | 0.0022 | 0.5% | Sulphur | 7704-34-9 |
| | 0 | 0.00105g max | Carbon (impurity only) | 7440-44-0 |
| | 0 | 0.00879g max | Silicon (impurity only) | 7440-21-3 |
| | 0 | 0.0176g max | Manganese (impurity only) | 7439-96-5 |
| | 0 | 0.000528g max | Phosphorus (impurity only) | 7723-14-0 |
| | 0 | 0.00879g max | Molybdenum (impurity only) | 7439-98-7 |
| | 0 | 0.00176g max | Niobium (impurity only) | 7440-03-1 |
| | 0 | 0.00088g max | Titanium (impurity only) | 7440-32-6 |
| | 0 | 0.00615g max | Copper (impurity only) | 7440-50-8 |
| | | | | |
| Jackscrew Bolts - Stainless Steel | 0.326 | 10% | Iron | 7439-89-6 |
| | 0.0806 | 4% | Chromium (Metallic) | 7440-47-3 |
| | 0.0403 | 4% | Nickel | 7440-02-0 |
| | 0.00112 | 0.5% | Sulphur | 7704-34-9 |
| | 0 | 0.000538g max | Carbon (impurity only) | 7440-44-0 |
| | 0 | 0.00448g max | Silicon (impurity only) | 7440-21-3 |
| | 0 | 0.00896g max | Manganese (impurity only) | 7439-96-5 |
| | 0 | 0.000268g max | Phosphorus (impurity only) | 7723-14-0 |
| | 0 | 0.00448g max | Molybdenum (impurity only) | 7439-98-7 |
| | 0 | 0.000896g max | Niobium (impurity only) | 7440-03-1 |
| | 0 | 0.000448g max | Titanium (impurity only) | 7440-32-6 |
| | 0 | 0.00313g max | Copper (impurity only) | 7440-50-8 |
| | | | | |
| Moulding (total weight) | (0.0226 * XX) + 0.308 | 10% | 30% Glass-Filled PPS | |
| Containing: | (0.0158 * XX) + 0.216 | 10% | PPS | 26125-40-6 |
| | (0.00678 * XX) + 0.0924 | 10% | 30% Glass Fibre | 65997-17-3 |
| Does not contain: | | | Antimony | |
| | | | Other Brominated Flame Retardants | |
| | | | | |

Material Declaration for M80-5L1XXXXMD

| Product Information | |
|---------------------|-----------------------|
| Part Number: | M80-5L1XX22MD |
| Part Description: | 2mm Horiz Datamate |
| Part Weight (g): | (0.0449 * XX) + 1.634 |

| Process Data | |
|-----------------------|----------------------|
| Peak Reflow (Deg. C) | 235°C for 5 sec |
| Termination Finish | Tin/Lead over Nickel |
| RoHS Compliant? (Y/N) | No |

Note: RoHS compliant by threshold values, lead intentionally added, not recommended for Lead-Free Soldering.

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

| Homogeneous Material Location | Weight (g) | Tolerance | Substance Name | CAS # |
|-----------------------------------|-------------------------|----------------------|-----------------------------------|------------|
| Contacts - Phosphor Bronze | 0.0207 * XX | 5% | Copper | 7440-50-8 |
| | 0.0011 * XX | 2% | Tin | 7440-31-5 |
| | 0.000042 * XX | 0.5% | Phosphorus | 7723-14-0 |
| | 0 | (0.000066 * XX)g max | Zinc (impurity only) | 7440-66-6 |
| | 0 | (0.000022 * XX)g max | Iron (impurity only) | 7439-89-6 |
| Contacts - Plating | 0 | (0.000011 * XX)g max | Lead (impurity only) | 7439-92-1 |
| | 0 | (0.00011 * XX)g max | Other Impurities | |
| | 0.000066 * XX | 5% | Gold | 7440-57-5 |
| | 0.000172 * XX | 5% | Tin | 7440-31-5 |
| | 0.00003 * XX | 5% | Lead | 7439-92-1 |
| Jackscrews - Stainless Steel | 0.000226 * XX | 10% | Nickel | 7440-02-0 |
| | 0.639 | 5% | Iron | 7439-89-6 |
| | 0.158 | 2% | Chromium (Metallic) | 7440-47-3 |
| | 0.0791 | 2% | Nickel | 7440-02-0 |
| | 0.0022 | 0.5% | Sulphur | 7704-34-9 |
| | 0 | 0.00105g max | Carbon (impurity only) | 7440-44-0 |
| | 0 | 0.00879g max | Silicon (impurity only) | 7440-21-3 |
| | 0 | 0.0176g max | Manganese (impurity only) | 7439-96-5 |
| | 0 | 0.000528g max | Phosphorus (impurity only) | 7723-14-0 |
| | 0 | 0.00879g max | Molybdenum (impurity only) | 7439-98-7 |
| Jackscrew Bolts - Stainless Steel | 0 | 0.00176g max | Niobium (impurity only) | 7440-03-1 |
| | 0 | 0.00088g max | Titanium (impurity only) | 7440-32-6 |
| | 0 | 0.00615g max | Copper (impurity only) | 7440-50-8 |
| | 0.326 | 10% | Iron | 7439-89-6 |
| | 0.0806 | 4% | Chromium (Metallic) | 7440-47-3 |
| | 0.0403 | 4% | Nickel | 7440-02-0 |
| | 0.00112 | 0.5% | Sulphur | 7704-34-9 |
| | 0 | 0.000538g max | Carbon (impurity only) | 7440-44-0 |
| | 0 | 0.00448g max | Silicon (impurity only) | 7440-21-3 |
| | 0 | 0.00896g max | Manganese (impurity only) | 7439-96-5 |
| Moulding (total weight) | 0 | 0.000268g max | Phosphorus (impurity only) | 7723-14-0 |
| | 0 | 0.00448g max | Molybdenum (impurity only) | 7439-98-7 |
| | 0 | 0.000896g max | Niobium (impurity only) | 7440-03-1 |
| | 0 | 0.000448g max | Titanium (impurity only) | 7440-32-6 |
| | 0 | 0.00313g max | Copper (impurity only) | 7440-50-8 |
| | (0.0226 * XX) + 0.308 | 10% | 30% Glass-Filled PPS | |
| | (0.0158 * XX) + 0.216 | 10% | PPS | 26125-40-6 |
| | (0.00678 * XX) + 0.0924 | 10% | 30% Glass Fibre | 65997-17-3 |
| | Does not contain: | | Antimony | |
| | | | Other Brominated Flame Retardants | |


Material Declaration for M80-5L1XXXXMD

| Product Information | |
|---------------------|-----------------------|
| Part Number: | M80-5L1XX42MD |
| Part Description: | 2mm Horiz Datamate |
| Part Weight (g): | (0.0449 * XX) + 1.634 |

| Process Data | |
|-----------------------|----------------------|
| Peak Reflow (Deg. C) | 260°C for 10 sec |
| Termination Finish | 100% Tin over Nickel |
| 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 # | |
|-------------------------------|-----------------------------------|-----------------------|-----------------------------------|----------------------|------------|
| Contacts - Phosphor Bronze | 0.0207 * XX | 5% | Copper | 7440-50-8 | |
| | 0.0011 * XX | 2% | Tin | 7440-31-5 | |
| | 0.000042 * XX | 0.5% | Phosphorus | 7723-14-0 | |
| | 0 | (0.000066 * XX)g max | Zinc (impurity only) | 7440-66-6 | |
| | 0 | (0.000022 * XX)g max | Iron (impurity only) | 7439-89-6 | |
| | 0 | (0.000011 * XX)g max | Lead (impurity only) | 7439-92-1 | |
| Contacts - Plating | 0 | (0.00011 * XX)g max | Other Impurities | | |
| | 0.000066 * XX | 5% | Gold | 7440-57-5 | |
| | 0.000191 * XX | 5% | Tin | 7440-31-5 | |
| | 0.000226 * XX | 10% | Nickel | 7440-02-0 | |
| Jackscrews - Stainless Steel | 0.639 | 5% | Iron | 7439-89-6 | |
| | 0.158 | 2% | Chromium (Metallic) | 7440-47-3 | |
| | 0.0791 | 2% | Nickel | 7440-02-0 | |
| | 0.0022 | 0.5% | Sulphur | 7704-34-9 | |
| | 0 | 0.00105g max | Carbon (impurity only) | 7440-44-0 | |
| | 0 | 0.00879g max | Silicon (impurity only) | 7440-21-3 | |
| | 0 | 0.0176g max | Manganese (impurity only) | 7439-96-5 | |
| | 0 | 0.000528g max | Phosphorus (impurity only) | 7723-14-0 | |
| | 0 | 0.00879g max | Molybdenum (impurity only) | 7439-98-7 | |
| | 0 | 0.00176g max | Niobium (impurity only) | 7440-03-1 | |
| | 0 | 0.00088g max | Titanium (impurity only) | 7440-32-6 | |
| | 0 | 0.00615g max | Copper (impurity only) | 7440-50-8 | |
| | Jackscrew Bolts - Stainless Steel | 0.326 | 10% | Iron | 7439-89-6 |
| | | 0.0806 | 4% | Chromium (Metallic) | 7440-47-3 |
| 0.0403 | | 4% | Nickel | 7440-02-0 | |
| 0.00112 | | 0.5% | Sulphur | 7704-34-9 | |
| 0 | | 0.000538g max | Carbon (impurity only) | 7440-44-0 | |
| 0 | | 0.00448g max | Silicon (impurity only) | 7440-21-3 | |
| 0 | | 0.00896g max | Manganese (impurity only) | 7439-96-5 | |
| 0 | | 0.000268g max | Phosphorus (impurity only) | 7723-14-0 | |
| 0 | | 0.00448g max | Molybdenum (impurity only) | 7439-98-7 | |
| 0 | | 0.000896g max | Niobium (impurity only) | 7440-03-1 | |
| 0 | | 0.000448g max | Titanium (impurity only) | 7440-32-6 | |
| 0 | | 0.00313g max | Copper (impurity only) | 7440-50-8 | |
| Moulding (total weight) | | (0.0226 * XX) + 0.308 | 10% | 30% Glass-Filled PPS | |
| Containing: | | (0.0158 * XX) + 0.216 | 10% | PPS | 26125-40-6 |
| | (0.00678 * XX) + 0.0924 | 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:

