

Material Declaration for M80-4T1XXXXF3

Product Information	
Part Number:	M80-4T1XX01F3
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0695 * XX) + 0.985

Process Data	
Peak Reflow (Deg. C)	235°C for 5 seconds
Termination Finish	90/10 Tin/Lead over Nickel/Copper
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 #	
Contact Shell - Brass	0.0244 * XX	2%	Copper	7440-50-8	
	0.0164 * XX	1%	Zinc	7440-66-6	
	0.00141 * XX	0.5%	Lead	7439-92-1	
	0	(0.000126 * XX)g max	Iron (impurity only)	7439-89-6	
	0	(0.000126 * XX)g max	Tin (impurity only)	7440-31-5	
	0	(0.000126 * XX)g max	Nickel (impurity only)	7440-02-0	
	0	(0.000021 * XX)g max	Aluminium (impurity only)	7429-90-5	
Contact Shell - Plating	0	(0.00021 * XX)g max	Other Impurities		
	0.000876 * XX	5%	Tin	7440-31-5	
	0.000151 * XX	5%	Lead	7439-92-1	
	0.000445 * XX	10%	Nickel	7440-02-0	
	0.000297 * 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 Pins - Stainless Steel	0.287	10%	Iron	7439-89-6	
	0.0711	4%	Chromium (Metallic)	7440-47-3	
	0.0356	4%	Nickel	7440-02-0	
	0.00277	0.8%	Copper	7440-50-8	
	0.000988	0.5%	Sulphur	7704-34-9	
	0	0.000474g max	Carbon (impurity only)	7440-44-0	
	0	0.00395g max	Silicon (impurity only)	7440-21-3	
	0	0.0079g max	Manganese (impurity only)	7439-96-5	
	0	0.000238g max	Phosphorus (impurity only)	7723-14-0	
	0	0.00395g max	Molybdenum (impurity only)	7439-98-7	
	0	0.00079g max	Niobium (impurity only)	7440-03-1	
	0	0.000396g max	Titanium (impurity only)	7440-32-6	
	Jackscrew Nuts - Stainless Steel	0.32	10%	Iron	7439-89-6
		0.0793	4%	Chromium (Metallic)	7440-47-3
0.0396		4%	Nickel	7440-02-0	
0.00308		0.8%	Copper	7440-50-8	
0.0011		0.5%	Sulphur	7704-34-9	
0		0.000528g max	Carbon (impurity only)	7440-44-0	
0		0.0044g max	Silicon (impurity only)	7440-21-3	
0		0.0088g max	Manganese (impurity only)	7439-96-5	
0		0.000264g max	Phosphorus (impurity only)	7723-14-0	
0		0.0044g max	Molybdenum (impurity only)	7439-98-7	
0		0.00088g max	Niobium (impurity only)	7440-03-1	
0		0.00044g max	Titanium (impurity only)	7440-32-6	
Moulding (total weight)		(0.0233 * XX) + 0.144	10%	30% Glass-Filled PPS	
		(0.0163 * XX) + 0.101	10%	PPS	26125-40-6
	(0.00699 * XX) + 0.0432	10%	30% Glass Fibre	65997-17-3	
Does not contain:			Antimony		
			Other Brominated Flame Retardants		

Material Declaration for M80-4T1XXXXF3

Product Information	
Part Number:	M80-4T1XX05F3
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0685 * XX) + 0.985
Process Data	
Peak Reflow (Deg. C)	260°C for 10 seconds
Termination Finish	Gold over Nickel/Copper
RoHS Compliant? (Y/N)	Yes

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Contact Shell - Brass	0.0244 * XX	2%	Copper	7440-50-8
	0.0164 * XX	1%	Zinc	7440-66-6
	0.00126 * XX	0.5%	Lead	7439-92-1
	0	(0.000126 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000126 * XX)g max	Tin (impurity only)	7440-31-5
	0	(0.000126 * XX)g max	Nickel (impurity only)	7440-02-0
Contact Shell - Plating	0	(0.000021 * XX)g max	Aluminium (impurity only)	7429-90-5
	0	(0.00021 * XX)g max	Other Impurities	
	0.00018 * XX	5%	Gold	7440-57-5
	0.000445 * XX	10%	Nickel	7440-02-0
	0.000371 * 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 Pins - Stainless Steel	0.287	10%	Iron	7439-89-6
	0.0711	4%	Chromium (Metallic)	7440-47-3
	0.0356	4%	Nickel	7440-02-0
	0.00277	0.8%	Copper	7440-50-8
	0.000988	0.5%	Sulphur	7704-34-9
	0	0.000474g max	Carbon (impurity only)	7440-44-0
	0	0.00395g max	Silicon (impurity only)	7440-21-3
	0	0.0079g max	Manganese (impurity only)	7439-96-5
	0	0.000238g max	Phosphorus (impurity only)	7723-14-0
	0	0.00395g max	Molybdenum (impurity only)	7439-98-7
	0	0.00079g max	Niobium (impurity only)	7440-03-1
	0	0.000396g max	Titanium (impurity only)	7440-32-6
Jackscrew Nuts - Stainless Steel	0.32	10%	Iron	7439-89-6
	0.0793	4%	Chromium (Metallic)	7440-47-3
	0.0396	4%	Nickel	7440-02-0
	0.00308	0.8%	Copper	7440-50-8
	0.0011	0.5%	Sulphur	7704-34-9
	0	0.000528g max	Carbon (impurity only)	7440-44-0
	0	0.0044g max	Silicon (impurity only)	7440-21-3
	0	0.0088g max	Manganese (impurity only)	7439-96-5
	0	0.000264g max	Phosphorus (impurity only)	7723-14-0
	0	0.0044g max	Molybdenum (impurity only)	7439-98-7
	0	0.00088g max	Niobium (impurity only)	7440-03-1
	0	0.00044g max	Titanium (impurity only)	7440-32-6
Moulding (total weight)	(0.0233 * XX) + 0.144	10%	30% Glass-Filled PPS	
Containing:	(0.0163 * XX) + 0.101	10%	PPS	26125-40-6
	(0.00699 * XX) + 0.0432	10%	30% Glass Fibre	65997-17-3
Does not contain:			Antimony	
			Other Brominated Flame Retardants	

Material Declaration for M80-4T1XXXXF3

Product Information	
Part Number:	M80-4T1XX42F3
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0692 * XX) + 0.985

Process Data	
Peak Reflow (Deg. C)	260°C for 10 seconds
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	0.0244 * XX	2%	Copper	7440-50-8
	0.0164 * XX	1%	Zinc	7440-66-6
	0.00126 * XX	0.5%	Lead	7439-92-1
	0	(0.000126 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000126 * XX)g max	Tin (impurity only)	7440-31-5
	0	(0.000126 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000021 * XX)g max	Aluminium (impurity only)	7429-90-5
Contact Shell - Plating	0	(0.00021 * XX)g max	Other Impurities	
	0.000973 * XX	5%	Tin	7440-31-5
	0.000445 * XX	10%	Nickel	7440-02-0
	0.000297 * 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
Contact Clip - Plating	0.000006 * XX	5%	Gold	7440-57-5
Jackscrew Pins - Stainless Steel	0.287	10%	Iron	7439-89-6
	0.0711	4%	Chromium (Metallic)	7440-47-3
	0.0356	4%	Nickel	7440-02-0
	0.00277	0.8%	Copper	7440-50-8
	0.000988	0.5%	Sulphur	7704-34-9
	0	0.000474g max	Carbon (impurity only)	7440-44-0
	0	0.00395g max	Silicon (impurity only)	7440-21-3
	0	0.0079g max	Manganese (impurity only)	7439-96-5
	0	0.000238g max	Phosphorus (impurity only)	7723-14-0
	0	0.00395g max	Molybdenum (impurity only)	7439-98-7
	0	0.00079g max	Niobium (impurity only)	7440-03-1
	0	0.000396g max	Titanium (impurity only)	7440-32-6
Jackscrew Nuts - Stainless Steel	0.32	10%	Iron	7439-89-6
	0.0793	4%	Chromium (Metallic)	7440-47-3
	0.0396	4%	Nickel	7440-02-0
	0.00308	0.8%	Copper	7440-50-8
	0.0011	0.5%	Sulphur	7704-34-9
	0	0.000528g max	Carbon (impurity only)	7440-44-0
	0	0.0044g max	Silicon (impurity only)	7440-21-3
	0	0.0088g max	Manganese (impurity only)	7439-96-5
	0	0.000264g max	Phosphorus (impurity only)	7723-14-0
	0	0.0044g max	Molybdenum (impurity only)	7439-98-7
	0	0.00088g max	Niobium (impurity only)	7440-03-1
	0	0.00044g max	Titanium (impurity only)	7440-32-6
Moulding (total weight)	(0.0233 * XX) + 0.144	10%	30% Glass-Filled PPS	
Containing:	(0.0163 * XX) + 0.101	10%	PPS	26125-40-6
	(0.00699 * XX) + 0.0432	10%	30% Glass Fibre	65997-17-3
Does not contain:			Antimony	
			Other Brominated Flame Retardants	

Prepared by: *M. J. Perry*

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

On behalf of: **HARWIN**