

Material Declaration for M80-4S1XXXXF9

Product Information	
Part Number:	M80-4S1X05F9
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0747 * XX) + 1.132
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	0.0279 * XX	2%	Copper	7440-50-8
	0.0187 * XX	1%	Zinc	7440-66-6
	0.00144 * XX	0.5%	Lead	7439-92-1
	0	(0.000144 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000144 * XX)g max	Tin (impurity only)	7440-31-5
Contact Shell - Plating	0	(0.000144 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000024 * XX)g max	Aluminium (impurity only)	7429-90-5
	0	(0.00024 * XX)g max	Other Impurities	
	0.000195 * XX	5%	Gold	7440-57-5
	0.000482 * XX	10%	Nickel	7440-02-0
Contact Clip - Beryllium Copper	0.000402 * XX	10%	Copper	7440-50-8
	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
	0.394	10%	Iron	7439-89-6
	0.0974	4%	Chromium (Metallic)	7440-47-3
	0.0487	4%	Nickel	7440-02-0
	0.00379	0.8%	Copper	7440-50-8
	0.00135	0.5%	Sulphur	7704-34-9
	0	0.00065g max	Carbon (impurity only)	7440-44-0
	0	0.00541g max	Silicon (impurity only)	7440-21-3
	0	0.0108g max	Manganese (impurity only)	7439-96-5
	0	0.000324g max	Phosphorus (impurity only)	7723-14-0
0	0.00541g max	Molybdenum (impurity only)	7439-98-7	
0	0.00108g max	Niobium (impurity only)	7440-03-1	
0	0.000542g max	Titanium (impurity only)	7440-32-6	
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	0.00881g 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)	(0.0234 * XX) + 0.144	10%	30% Glass-Filled PPS	
Containing:	(0.0164 * XX) + 0.101	10%	PPS	26125-40-6
	(0.00702 * XX) + 0.0432	10%	30% Glass Fibre	65997-17-3
Does not contain:			Antimony	
			Other Brominated Flame Retardants	

Material Declaration for M80-4S1XXXXF9

Product Information	
Part Number:	M80-4S1XX42F9
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0755 * XX) + 1.132
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	0.0279 * XX	2%	Copper	7440-50-8	
	0.0187 * XX	1%	Zinc	7440-66-6	
	0.00144 * XX	0.5%	Lead	7439-92-1	
	0	(0.000144 * XX)g max	Iron (impurity only)	7439-89-6	
	0	(0.000144 * XX)g max	Tin (impurity only)	7440-31-5	
	0	(0.000144 * XX)g max	Nickel (impurity only)	7440-02-0	
	0	(0.000024 * XX)g max	Aluminium (impurity only)	7429-90-5	
	0	(0.00024 * XX)g max	Other Impurities		
	Contact Shell - Plating	0.00105 * XX	5%	Tin	7440-31-5
		0.000482 * XX	10%	Nickel	7440-02-0
0.000321 * 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		
	Contact Clip - Plating	0.000057 * XX	10%	Nickel	7440-02-0
		0.000006 * XX	5%	Gold	7440-57-5
Jackscrews - Stainless Steel	0.394	10%	Iron	7439-89-6	
	0.0974	4%	Chromium (Metallic)	7440-47-3	
	0.0487	4%	Nickel	7440-02-0	
	0.00379	0.8%	Copper	7440-50-8	
	0.00135	0.5%	Sulphur	7704-34-9	
	0	0.00065g max	Carbon (impurity only)	7440-44-0	
	0	0.00541g max	Silicon (impurity only)	7440-21-3	
	0	0.0108g max	Manganese (impurity only)	7439-96-5	
	0	0.000324g max	Phosphorus (impurity only)	7723-14-0	
	0	0.00541g max	Molybdenum (impurity only)	7439-98-7	
	0	0.00108g max	Niobium (impurity only)	7440-03-1	
	0	0.000542g max	Titanium (impurity only)	7440-32-6	
	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		0.00881g 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)	(0.0234 * XX) + 0.144	10%	30% Glass-Filled PPS		
	Containing:	(0.0164 * XX) + 0.101	10%	PPS	26125-40-6
	(0.00702 * XX) + 0.0432	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: 