

Material Declaration for M80-4S1XXXXFC

Product Information	
Part Number:	M80-4S1XX05FC
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0747 * XX) + 0.622
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
	0	(0.000144 * XX)g max	Nickel (impurity only)	7440-02-0
Contact Shell - Plating	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
	0.000402 * 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 Holders - Stainless Steel	0.123	10%	Iron	7439-89-6
	0.0311	4%	Chromium (Metallic)	7440-47-3
	0.0155	4%	Nickel	7440-02-0
	0.00276	0.8%	Copper	7440-50-8
	0.000432	0.5%	Sulphur	7704-34-9
	0	0.000138g max	Carbon (impurity only)	7440-44-0
	0	0.00173g max	Silicon (impurity only)	7440-21-3
	0	0.00345g max	Manganese (impurity only)	7439-96-5
	0	0.000078g max	Phosphorus (impurity only)	7723-14-0
	0	0.00104g max	Molybdenum (impurity only)	7439-98-7
	0	0.00019g max	Nitrogen (impurity only)	7727-37-9
	Jackscrew Bolts - Stainless Steel	0.2	10%	Iron
0.0494		4%	Chromium (Metallic)	7440-47-3
0.0247		4%	Nickel	7440-02-0
0.00192		0.8%	Copper	7440-50-8
0.000686		0.5%	Sulphur	7704-34-9
0		0.00033g max	Carbon (impurity only)	7440-44-0
0		0.00275g max	Silicon (impurity only)	7440-21-3
0		0.00549g max	Manganese (impurity only)	7439-96-5
0		0.000164g max	Phosphorus (impurity only)	7723-14-0
0		0.00275g max	Molybdenum (impurity only)	7439-98-7
0		0.00055g max	Niobium (impurity only)	7440-03-1
0		0.000274g max	Titanium (impurity only)	7440-32-6
Jackscrew Springs - Music Wire	0.0251	10%	Iron	7439-89-6
	0.000222	2%	Carbon	7440-44-0
	0.000064	2%	Silicon	7440-21-3
	0	0.000204g max	Manganese (impurity only)	7439-96-5
	0	0.000008g max	Phosphorus (impurity only)	7723-14-0
	0	0.000008g max	Sulphur (impurity only)	7704-34-9
Jackscrew Springs - Plating	0.00279	10%	Nickel	7440-02-0
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 M80-4S1XXXXFC

Product Information	
Part Number:	M80-4S1XX42FC
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0755 * XX) + 0.622
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
Contact Clip - Plating	0.000057 * XX	10%	Nickel	7440-02-0
	0.000006 * XX	5%	Gold	7440-57-5
Jackscrew Holders - Stainless Steel	0.123	10%	Iron	7439-89-6
	0.0311	4%	Chromium (Metallic)	7440-47-3
	0.0155	4%	Nickel	7440-02-0
	0.00276	0.8%	Copper	7440-50-8
	0.000432	0.5%	Sulphur	7704-34-9
	0	0.000138g max	Carbon (impurity only)	7440-44-0
	0	0.00173g max	Silicon (impurity only)	7440-21-3
	0	0.00345g max	Manganese (impurity only)	7439-96-5
	0	0.000078g max	Phosphorus (impurity only)	7723-14-0
	0	0.00104g max	Molybdenum (impurity only)	7439-98-7
	0	0.00019g max	Nitrogen (impurity only)	7727-37-9
Jackscrew Bolts - Stainless Steel	0.2	10%	Iron	7439-89-6
	0.0494	4%	Chromium (Metallic)	7440-47-3
	0.0247	4%	Nickel	7440-02-0
	0.00192	0.8%	Copper	7440-50-8
	0.000686	0.5%	Sulphur	7704-34-9
	0	0.00033g max	Carbon (impurity only)	7440-44-0
	0	0.00275g max	Silicon (impurity only)	7440-21-3
	0	0.00549g max	Manganese (impurity only)	7439-96-5
	0	0.000164g max	Phosphorus (impurity only)	7723-14-0
	0	0.00275g max	Molybdenum (impurity only)	7439-98-7
	0	0.00055g max	Niobium (impurity only)	7440-03-1
	0	0.000274g max	Titanium (impurity only)	7440-32-6
Jackscrew Springs - Music Wire	0.0251	10%	Iron	7439-89-6
	0.000222	2%	Carbon	7440-44-0
	0.000064	2%	Silicon	7440-21-3
	0	0.000204g max	Manganese (impurity only)	7439-96-5
	0	0.000008g max	Phosphorus (impurity only)	7723-14-0
	0	0.000008g max	Sulphur (impurity only)	7704-34-9
Jackscrew Springs - Plating	0.00279	10%	Nickel	7440-02-0
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: *M. J. Perry*

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

On behalf of: **HARWIN**