

## Material Declaration for M80-513XXXX

Product Information	
Part Number:	M80-513XX05
Part Description:	2mm Vert Datamate
Part Weight (g):	(0.0352 * XX) + 1.289

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

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Contacts - Phosphor Bronze	0.0117 * XX	2%	Copper	7440-50-8
	0.000617 * XX	1%	Tin	7440-31-5
	0.000023 * XX	0.5%	Phosphorus	7723-14-0
	0	(0.000037 * XX)g max	Zinc (impurity only)	7440-66-6
	0	(0.000012 * XX)g max	Iron (impurity only)	7439-89-6
Contacts - Plating	0	(0.000006 * XX)g max	Lead (impurity only)	7439-92-1
	0	(0.000062 * XX)g max	Other Impurities	
	0.00017 * XX	5%	Gold	7440-57-5
	0.000133 * XX	10%	Nickel	7440-02-0
Jackscrews - Stainless Steel	0.383	10%	Iron	7439-89-6
	0.0969	4%	Chromium (Metallic)	7440-47-3
	0.00135	0.5%	Sulphur	7704-34-9
	0.0485	4%	Nickel	7440-02-0
	0.00862	0.8%	Copper	7440-50-8
	0	0.00043g max	Carbon (impurity only)	7440-44-0
	0	0.00539g max	Silicon (impurity only)	7440-21-3
	0	0.0108g max	Manganese (impurity only)	7439-96-5
	0	0.000242g max	Phosphorus (impurity only)	7723-14-0
	0	0.00323g max	Molybdenum (impurity only)	7439-98-7
0	0.000592g max	Nitrogen (impurity only)	7727-37-9	
Jackscrew Nuts - Stainless Steel	0.32	10%	Iron	7439-89-6
	0.0793	4%	Chromium (Metallic)	7440-47-3
	0.0011	0.5%	Sulphur	7704-34-9
	0.0396	4%	Nickel	7440-02-0
	0.00308	0.8%	Copper	7440-50-8
	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)	(0.0226 * 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 M80-513XXXX

Product Information	
Part Number:	M80-513XX22
Part Description:	2mm Vert Datamate
Part Weight (g):	(0.0353 * XX) + 1.289

Process Data	
Peak Reflow (Deg. C)	235°C for 5 seconds
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.

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Contacts - Phosphor Bronze	0.0117 * XX	2%	Copper	7440-50-8
	0.000617 * XX	1%	Tin	7440-31-5
	0.000023 * XX	0.5%	Phosphorus	7723-14-0
	0	(0.000037 * XX)g max	Zinc (impurity only)	7440-66-6
	0	(0.000012 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000006 * XX)g max	Lead (impurity only)	7439-92-1
Contacts - Plating	0	(0.000062 * XX)g max	Other Impurities	
	0.000066 * XX	5%	Gold	7440-57-5
	0.000118 * XX	5%	Tin	7440-31-5
	0.00002 * XX	5%	Lead	7439-92-1
	0.000133 * XX	10%	Nickel	7440-02-0
Jackscrews - Stainless Steel	0.383	10%	Iron	7439-89-6
	0.0969	4%	Chromium (Metallic)	7440-47-3
	0.00135	0.5%	Sulphur	7704-34-9
	0.0485	4%	Nickel	7440-02-0
	0.00862	0.8%	Copper	7440-50-8
	0	0.00043g max	Carbon (impurity only)	7440-44-0
	0	0.00539g max	Silicon (impurity only)	7440-21-3
	0	0.0108g max	Manganese (impurity only)	7439-96-5
	0	0.000242g max	Phosphorus (impurity only)	7723-14-0
	0	0.00323g max	Molybdenum (impurity only)	7439-98-7
	0	0.000592g max	Nitrogen (impurity only)	7727-37-9
Jackscrew Nuts - Stainless Steel	0.32	10%	Iron	7439-89-6
	0.0793	4%	Chromium (Metallic)	7440-47-3
	0.0011	0.5%	Sulphur	7704-34-9
	0.0396	4%	Nickel	7440-02-0
	0.00308	0.8%	Copper	7440-50-8
	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)	(0.0226 * 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 M80-513XXXX

Product Information	
Part Number:	M80-513XX42
Part Description:	2mm Vert Datamate
Part Weight (g):	(0.0353 * XX) + 1.289

Process Data	
Peak Reflow (Deg. C)	260°C for 10 seconds
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	0.0117 * XX	2%	Copper	7440-50-8	
	0.000617 * XX	1%	Tin	7440-31-5	
	0.000023 * XX	0.5%	Phosphorus	7723-14-0	
	0	(0.000037 * XX)g max	Zinc (impurity only)	7440-66-6	
	0	(0.000012 * XX)g max	Iron (impurity only)	7439-89-6	
	0	(0.000006 * XX)g max	Lead (impurity only)	7439-92-1	
Contacts - Plating	0	(0.000062 * XX)g max	Other Impurities		
	0.000066 * XX	5%	Gold	7440-57-5	
	0.000133 * XX	5%	Tin	7440-31-5	
	0.000133 * XX	10%	Nickel	7440-02-0	
Jackscrews - Stainless Steel	0.383	10%	Iron	7439-89-6	
	0.0969	4%	Chromium (Metallic)	7440-47-3	
	0.00135	0.5%	Sulphur	7704-34-9	
	0.0485	4%	Nickel	7440-02-0	
	0.00862	0.8%	Copper	7440-50-8	
	0	0.00043g max	Carbon (impurity only)	7440-44-0	
	0	0.00539g max	Silicon (impurity only)	7440-21-3	
	0	0.0108g max	Manganese (impurity only)	7439-96-5	
	0	0.000242g max	Phosphorus (impurity only)	7723-14-0	
	0	0.00323g max	Molybdenum (impurity only)	7439-98-7	
	0	0.000592g max	Nitrogen (impurity only)	7727-37-9	
	Jackscrew Nuts - Stainless Steel	0.32	10%	Iron	7439-89-6
		0.0793	4%	Chromium (Metallic)	7440-47-3
		0.0011	0.5%	Sulphur	7704-34-9
0.0396		4%	Nickel	7440-02-0	
0.00308		0.8%	Copper	7440-50-8	
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)		(0.0226 * 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: 