

Material Declaration for M80-422XXXX

Product Information	
Part Number:	M80-422XX01
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0755 * XX) + 0.724
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.

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	0.000948 * XX	5%	Tin	7440-31-5
	0.000163 * XX	5%	Lead	7439-92-1
	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
Jackscrew Circlips - Stainless Steel	0.0164	10%	Iron	7439-89-6
	0	0.000078g max	Carbon (impurity only)	7440-44-0
	0	0.0002g max	Silicon (impurity only)	7440-21-3
	0	0.0003g max	Manganese (impurity only)	7439-96-5
	0	0.000008g max	Phosphorus (impurity only)	7723-14-0
	0.0033	4%	Chromium (Metallic)	7440-47-3
	0.00004	0.5%	Sulphur	7704-34-9
	0.0002	4%	Nickel	7440-02-0
	0	0.00021g max	Molybdenum (impurity only)	7439-98-7
	0.000078	0.8%	Copper	7440-50-8
Jackscrew Bolts - Stainless Steel	0.405	10%	Iron	7439-89-6
	0	0.000668g max	Carbon (impurity only)	7440-44-0
	0	0.00557g max	Silicon (impurity only)	7440-21-3
	0	0.0111g max	Manganese (impurity only)	7439-96-5
	0	0.000334g max	Phosphorus (impurity only)	7723-14-0
	0.1	4%	Chromium (Metallic)	7440-47-3
	0.00139	0.5%	Sulphur	7704-34-9
	0.0501	4%	Nickel	7440-02-0
	0	0.00557g max	Molybdenum (impurity only)	7439-98-7
	0	0.00111g max	Niobium (impurity only)	7440-03-1
	0	0.000556g max	Titanium (impurity only)	7440-32-6
	0.0039	0.8%	Copper	7440-50-8
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 M80-422XXXX

Product Information	
Part Number:	M80-422XX05
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0747 * XX) + 0.724
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
Contact Clip - Plating	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
Jackscrew Circlips - Stainless Steel	0.000006 * XX	5%	Gold	7440-57-5
	0.0164	10%	Iron	7439-89-6
	0	0.000078g max	Carbon (impurity only)	7440-44-0
	0	0.0002g max	Silicon (impurity only)	7440-21-3
	0	0.0003g max	Manganese (impurity only)	7439-96-5
Jackscrew Bolts - Stainless Steel	0	0.000008g max	Phosphorus (impurity only)	7723-14-0
	0.0033	4%	Chromium (Metallic)	7440-47-3
	0.00004	0.5%	Sulphur	7704-34-9
	0.0002	4%	Nickel	7440-02-0
	0	0.00021g max	Molybdenum (impurity only)	7439-98-7
Moulding (total weight)	0.000078	0.8%	Copper	7440-50-8
	0.405	10%	Iron	7439-89-6
	0	0.000668g max	Carbon (impurity only)	7440-44-0
	0	0.00557g max	Silicon (impurity only)	7440-21-3
	0	0.0111g max	Manganese (impurity only)	7439-96-5
Containing:	0	0.000334g max	Phosphorus (impurity only)	7723-14-0
	0.1	4%	Chromium (Metallic)	7440-47-3
	0.00139	0.5%	Sulphur	7704-34-9
	0.0501	4%	Nickel	7440-02-0
	0	0.00557g max	Molybdenum (impurity only)	7439-98-7
Does not contain:	0	0.00111g max	Niobium (impurity only)	7440-03-1
	0	0.000556g max	Titanium (impurity only)	7440-32-6
	0.0039	0.8%	Copper	7440-50-8
	(0.0234 * XX) + 0.144	10%	30% Glass-Filled PPS	
	(0.0164 * XX) + 0.101	10%	PPS	26125-40-6
(0.00702 * XX) + 0.0432	10%	30% Glass Fibre	65997-17-3	
			Antimony	
			Other Brominated Flame Retardants	

Material Declaration for M80-422XXXX

Product Information	
Part Number:	M80-422XX42
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0755 * XX) + 0.724
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
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	
	0.00105 * XX	5%	Tin	7440-31-5
	0.000482 * XX	10%	Nickel	7440-02-0
Contact Clip - Beryllium Copper	0.000321 * 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
Contact Clip - Plating	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
Jackscrew Circlips - Stainless Steel	0.000006 * XX	5%	Gold	7440-57-5
	0.0164	10%	Iron	7439-89-6
	0	0.000078g max	Carbon (impurity only)	7440-44-0
	0	0.0002g max	Silicon (impurity only)	7440-21-3
	0	0.0003g max	Manganese (impurity only)	7439-96-5
Jackscrew Bolts - Stainless Steel	0	0.000008g max	Phosphorus (impurity only)	7723-14-0
	0.0033	4%	Chromium (Metallic)	7440-47-3
	0.00004	0.5%	Sulphur	7704-34-9
	0.0002	4%	Nickel	7440-02-0
	0	0.00021g max	Molybdenum (impurity only)	7439-98-7
Moulding (total weight)	0.000078	0.8%	Copper	7440-50-8
	0.405	10%	Iron	7439-89-6
	0	0.000668g max	Carbon (impurity only)	7440-44-0
	0	0.00557g max	Silicon (impurity only)	7440-21-3
	0	0.0111g max	Manganese (impurity only)	7439-96-5
Containing:	0	0.000334g max	Phosphorus (impurity only)	7723-14-0
	0.1	4%	Chromium (Metallic)	7440-47-3
	0.00139	0.5%	Sulphur	7704-34-9
	0.0501	4%	Nickel	7440-02-0
	0	0.00557g max	Molybdenum (impurity only)	7439-98-7
Does not contain:	0	0.00111g max	Niobium (impurity only)	7440-03-1
	0	0.000556g max	Titanium (impurity only)	7440-32-6
	0.0039	0.8%	Copper	7440-50-8
	(0.0234 * XX) + 0.144	10%	30% Glass-Filled PPS	
	(0.0164 * XX) + 0.101	10%	PPS	26125-40-6
(0.00702 * XX) + 0.0432	10%	30% Glass Fibre	65997-17-3	
			Antimony	
			Other Brominated Flame Retardants	

Prepared by: 

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

On behalf of: 