

## Material Declaration for M80-411XXXX

Product Information	
Part Number:	M80-411XX01
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0726 * XX) + 0.144

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	0.0261 * XX	2%	Copper	7440-50-8	
	0.0175 * XX	1%	Zinc	7440-66-6	
	0.00151 * XX	0.5%	Lead	7439-92-1	
	0	(0.000135 * XX)g max	Iron (impurity only)	7439-89-6	
	0	(0.000135 * XX)g max	Tin (impurity only)	7440-31-5	
Contact Shell - Plating	0	(0.000135 * XX)g max	Nickel (impurity only)	7440-02-0	
	0	(0.000022 * XX)g max	Aluminium (impurity only)	7429-90-5	
	0	(0.000225 * XX)g max	Other Impurities		
	0.000966 * XX	5%	Tin	7440-31-5	
	0.000166 * XX	5%	Lead	7439-92-1	
Contact Clip - Beryllium Copper	0.00049 * XX	10%	Nickel	7440-02-0	
	0.000327 * 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	
Contact Clip - Plating	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	
	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 M80-411XXXX

Product Information	
Part Number:	M80-411XX05
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0718 * XX) + 0.144

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	0.0261 * XX	2%	Copper	7440-50-8
	0.0175 * XX	1%	Zinc	7440-66-6
	0.00151 * XX	0.5%	Lead	7439-92-1
	0	(0.000135 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000135 * XX)g max	Tin (impurity only)	7440-31-5
Contact Shell - Plating	0	(0.000135 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000022 * XX)g max	Aluminium (impurity only)	7429-90-5
	0	(0.000225 * XX)g max	Other Impurities	
	0.000198 * XX	5%	Gold	7440-57-5
	0.00049 * XX	10%	Nickel	7440-02-0
Contact Clip - Beryllium Copper	0.000409 * 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
Moulding (total weight)	0.000006 * XX	5%	Gold	7440-57-5
	(0.0234 * XX) + 0.144	10%	30% Glass-Filled PPS	
	Containing:	(0.0164 * XX) + 0.101	10%	PPS
Does not contain:	(0.00702 * XX) + 0.0432	10%	30% Glass Fibre	65997-17-3
			Antimony	
			Other Brominated Flame Retardants	


## Material Declaration for M80-411XXXX

Product Information	
Part Number:	M80-411XX42
Part Description:	2mm Vertical Female Datamate
Part Weight (g):	(0.0726 * XX) + 0.144

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	0.0261 * XX	2%	Copper	7440-50-8
	0.0175 * XX	1%	Zinc	7440-66-6
	0.00151 * XX	0.5%	Lead	7439-92-1
	0	(0.000135 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000135 * XX)g max	Tin (impurity only)	7440-31-5
	0	(0.000135 * XX)g max	Nickel (impurity only)	7440-02-0
Contact Shell - Plating	0	(0.000022 * XX)g max	Aluminium (impurity only)	7429-90-5
	0	(0.000225 * XX)g max	Other Impurities	
	0.00107 * XX	5%	Tin	7440-31-5
	0.00049 * XX	10%	Nickel	7440-02-0
Contact Clip - Beryllium Copper	0.000327 * 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
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: 