

Material Declaration for M80-466XXXX

Product Information	
Part Number:	M80-466XX05
Part Description:	2mm Crimp Datamate
Part Weight (g):	(0.112 * XX) + 0.788
Process Data	
Peak Reflow (Deg. C)	n/a
Termination Finish	Gold over Nickel/Copper
RoHS Compliant? (Y/N)	Yes

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Contact Shell - Brass	0.0362 * XX	2%	Copper	7440-50-8
	0.0201 * XX	1%	Zinc	7440-66-6
	0.00115 * XX	0.5%	Lead	7439-92-1
	0	(0.000172 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000172 * XX)g max	Tin (impurity only)	7440-31-5
	0	(0.000172 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000029 * XX)g max	Aluminium (impurity only)	7429-90-5
	0	(0.00028 * XX)g max	Other Impurities	
Contact Shell - Plating	0.000292 * XX	5%	Gold	7440-57-5
	0.000723 * XX	10%	Nickel	7440-02-0
	0.000603 * 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 - Circlip	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
	0.000004	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
Jackscrews - Stainless Steel	0.4	10%	Iron	7439-89-6
	0	0.00066g max	Carbon (impurity only)	7440-44-0
	0	0.0055g max	Silicon (impurity only)	7440-21-3
	0	0.011g max	Manganese (impurity only)	7439-96-5
	0	0.00033g max	Phosphorus (impurity only)	7723-14-0
	0.099	4%	Chromium (Metallic)	7440-47-3
	0.0137	0.5%	Sulphur	7704-34-9
	0.0495	4%	Nickel	7440-02-0
	0	0.0055g max	Molybdenum (impurity only)	7439-98-7
	0	0.0011g max	Niobium (impurity only)	7440-03-1
	0	0.00055g max	Titanium (impurity only)	7440-32-6
	0.00385	0.8%	Copper	7440-50-8
Moulding (total weight)	(0.051 * XX) + 0.214	10%	30% Glass-Filled PPS	
Containing:	(0.0357 * XX) + 0.15	10%	PPS	26125-40-6
	(0.0153 * XX) + 0.0643	10%	30% Glass Fibre	65997-17-3
Does not contain:			Antimony	
			Other Brominated Flame Retardants	

Material Declaration for M80-466XXXX

Product Information	
Part Number:	M80-466XX42
Part Description:	2mm Crimp Datamate
Part Weight (g):	(0.113 * XX) + 0.788

Process Data	
Peak Reflow (Deg. C)	n/a
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	0.0362 * XX	2%	Copper	7440-50-8	
	0.0201 * XX	1%	Zinc	7440-66-6	
	0.00115 * XX	0.5%	Lead	7439-92-1	
	0	(0.000172 * XX)g max	Iron (impurity only)	7439-89-6	
Contact Shell - Plating	0	(0.000172 * XX)g max	Tin (impurity only)	7440-31-5	
	0	(0.000172 * XX)g max	Nickel (impurity only)	7440-02-0	
	0	(0.000029 * XX)g max	Aluminium (impurity only)	7429-90-5	
	0	(0.00028 * XX)g max	Other Impurities		
Contact Shell - Plating	0.00158 * XX	5%	Tin	7440-31-5	
	0.000723 * XX	10%	Nickel	7440-02-0	
	0.000483 * 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	
Jackscrews - Circlip	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	
	0.000004	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	
	Jackscrews - Stainless Steel	0.4	10%	Iron	7439-89-6
		0	0.00066g max	Carbon (impurity only)	7440-44-0
		0	0.0055g max	Silicon (impurity only)	7440-21-3
0		0.011g max	Manganese (impurity only)	7439-96-5	
0		0.00033g max	Phosphorus (impurity only)	7723-14-0	
0.099		4%	Chromium (Metallic)	7440-47-3	
0.0137		0.5%	Sulphur	7704-34-9	
0.0495		4%	Nickel	7440-02-0	
0		0.0055g max	Molybdenum (impurity only)	7439-98-7	
0		0.0011g max	Niobium (impurity only)	7440-03-1	
0		0.00055g max	Titanium (impurity only)	7440-32-6	
0.00385		0.8%	Copper	7440-50-8	
Moulding (total weight)		(0.051 * XX) + 0.214	10%	30% Glass-Filled PPS	
		(0.0357 * XX) + 0.15	10%	PPS	26125-40-6
	(0.0153 * XX) + 0.0643	10%	30% Glass Fibre	65997-17-3	
Does not contain:			Antimony		
			Other Brominated Flame Retardants		

Material Declaration for M80-466XXXX

Product Information	
Part Number:	M80-466XX05A
Part Description:	2mm Crimp Datamate
Part Weight (g):	(0.106 * XX) + 0.745
Process Data	
Peak Reflow (Deg. C)	n/a
Termination Finish	Gold over Nickel/Copper
RoHS Compliant? (Y/N)	Yes

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Contact Shell - Brass	0.0362 * XX	2%	Copper	7440-50-8
	0.0201 * XX	1%	Zinc	7440-66-6
	0.00115 * XX	0.5%	Lead	7439-92-1
	0	(0.000172 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000172 * XX)g max	Tin (impurity only)	7440-31-5
Contact Shell - Plating	0	(0.000172 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000029 * XX)g max	Aluminium (impurity only)	7429-90-5
	0	(0.00028 * XX)g max	Other Impurities	
	0.000292 * XX	5%	Gold	7440-57-5
	0.000723 * XX	10%	Nickel	7440-02-0
Contact Shell - Plating	0.000603 * 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
Jackscrews - Circlip				
	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
	0.000004	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
Jackscrews - Stainless Steel	0.4	10%	Iron	7439-89-6
	0	0.00066g max	Carbon (impurity only)	7440-44-0
	0	0.0055g max	Silicon (impurity only)	7440-21-3
	0	0.011g max	Manganese (impurity only)	7439-96-5
	0	0.00033g max	Phosphorus (impurity only)	7723-14-0
	0.099	4%	Chromium (Metallic)	7440-47-3
	0.0137	0.5%	Sulphur	7704-34-9
	0.0495	4%	Nickel	7440-02-0
	0	0.0055g max	Molybdenum (impurity only)	7439-98-7
	0	0.0011g max	Niobium (impurity only)	7440-03-1
	0	0.00055g max	Titanium (impurity only)	7440-32-6
	0.00385	0.8%	Copper	7440-50-8
	Moulding (total weight)	(0.0443 * XX) + 0.171	10%	30% Glass-Filled PPS
Containing:	(0.031 * XX) + 0.119	10%	PPS	26125-40-6
	(0.0133 * XX) + 0.0512	10%	30% Glass Fibre	65997-17-3
Does not contain:			Antimony	
			Other Brominated Flame Retardants	


Material Declaration for M80-466XXXX

Product Information	
Part Number:	M80-466XX42A
Part Description:	2mm Crimp Datamate
Part Weight (g):	(0.107 * XX) + 0.745

Process Data	
Peak Reflow (Deg. C)	n/a
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	0.0362 * XX	2%	Copper	7440-50-8
	0.0201 * XX	1%	Zinc	7440-66-6
	0.00115 * XX	0.5%	Lead	7439-92-1
	0	(0.000172 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000172 * XX)g max	Tin (impurity only)	7440-31-5
Contact Shell - Plating	0	(0.000172 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000029 * XX)g max	Aluminium (impurity only)	7429-90-5
	0	(0.00028 * XX)g max	Other Impurities	
	0.00158 * XX	5%	Tin	7440-31-5
	0.000723 * XX	10%	Nickel	7440-02-0
Contact Clip - Beryllium Copper	0.000483 * 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
Jackscrews - Circlip	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
Jackscrews - Stainless Steel	0	0.000008g max	Phosphorus (impurity only)	7723-14-0
	0.0033	4%	Chromium (Metallic)	7440-47-3
	0.000004	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
	0.4	10%	Iron	7439-89-6
	0	0.00066g max	Carbon (impurity only)	7440-44-0
	0	0.0055g max	Silicon (impurity only)	7440-21-3
	0	0.011g max	Manganese (impurity only)	7439-96-5
Containing:	0	0.00033g max	Phosphorus (impurity only)	7723-14-0
	0.099	4%	Chromium (Metallic)	7440-47-3
	0.0137	0.5%	Sulphur	7704-34-9
	0.0495	4%	Nickel	7440-02-0
	0	0.0055g max	Molybdenum (impurity only)	7439-98-7
Does not contain:	0	0.0011g max	Niobium (impurity only)	7440-03-1
	0	0.00055g max	Titanium (impurity only)	7440-32-6
	0.00385	0.8%	Copper	7440-50-8
	(0.0443 * XX) + 0.171	10%	30% Glass-Filled PPS	
	(0.031 * XX) + 0.119	10%	PPS	26125-40-6
(0.0133 * XX) + 0.0512	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: 