

Material Declaration for M80-681XXXXP

Product Information	
Part Number:	M80-681XX01P
Part Description:	2mm Female SMT Datamate
Part Weight (g):	(0.0724 * XX) + 0.0332

Process Data	
Peak Reflow (Deg. C)	235°C for 5 seconds
Termination Finish	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
	0.00161 * XX	0.5%	Lead	7439-92-1
	0	0.000144 * XX max	Iron (impurity only)	7439-89-6
	0	0.000144 * XX max	Tin (impurity only)	7440-31-5
Contact Shell - Plating	0	0.000144 * XX max	Nickel (impurity only)	7440-02-0
	0	0.000024 * XX max	Aluminium (impurity only)	7429-90-5
	0	0.00024 * XX max	Other Impurities	
	0.000948 * XX	5%	Tin	7440-31-5
	0.000163 * XX	5%	Lead	7439-92-1
Contact Clip - Beryllium Copper	0.000482 * XX	10%	Nickel	7440-02-0
	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 max	Nickel (impurity only)	7440-02-0
Contact Clip - Plating	0	0.000006 * XX max	Cobalt (impurity only)	7440-48-4
	0	0.000004 * XX max	Iron (impurity only)	7439-89-6
	0	0.000004 * XX max	Aluminium (impurity only)	7429-90-5
	0	0.000004 * XX max	Silicon (impurity only)	7440-21-3
	0	0.000011 * XX max	Other Impurities	
Moulding (total weight) Containing:	0.000057 * XX	10%	Nickel	7440-02-0
	0.000006 * XX	5%	Gold	7440-57-5
	(0.0201 * XX) + 0.0332	5%	30% GF PA46	
	(0.0101 * XX) + 0.0166	5%	PA46	50327-22-5
	(0.00603 * XX) + 0.00996	5%	30% Glass Fibre	65997-17-3
Pick and Place Cap - Phosphor Bronze	(0.00101 * XX) + 0.00166	5%	Antimony Trioxide	1309-64-4
	(0.00302 * XX) + 0.00498	5%	Other Brominated Flame Retardants [ISO 1043-4 Code No: FR(17)]	
	0.0838	2%	Copper	7440-50-8
	0.00442	1%	Tin	7440-31-5
	0.000181	0.4%	Phosphorus	7723-14-0
Other Impurities	0	0.000177 max	Nickel (impurity only)	7440-02-0
	0	0.000177 max	Zinc (impurity only)	7440-66-6
	0	0.000088 max	Iron (impurity only)	7439-89-6
	0	0.000018 max	Lead (impurity only)	7439-92-1
	0	0.000177 max	Other Impurities	

Material Declaration for M80-681XXXXP

Product Information	
Part Number:	M80-681XX42P
Part Description:	2mm Female SMT Datamate
Part Weight (g):	(0.0722 * XX) + 0.0332

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 max	Iron (impurity only)	7439-89-6
	0	0.000144 * XX max	Tin (impurity only)	7440-31-5
	0	0.000144 * XX max	Nickel (impurity only)	7440-02-0
Contact Shell - Plating	0	0.000024 * XX max	Aluminium (impurity only)	7429-90-5
	0	0.00024 * XX max	Other Impurities	
	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 max	Nickel (impurity only)	7440-02-0
	0	0.000006 * XX max	Cobalt (impurity only)	7440-48-4
	0	0.000004 * XX max	Iron (impurity only)	7439-89-6
	0	0.000004 * XX max	Aluminium (impurity only)	7429-90-5
	0	0.000004 * XX max	Silicon (impurity only)	7440-21-3
	0	0.000011 * XX max	Other Impurities	
Contact Clip - Plating	0.000057 * XX	10%	Nickel	7440-02-0
	0.000006 * XX	5%	Gold	7440-57-5
Moulding (total weight) Containing:	(0.0201 * XX) + 0.0332	5%	30% GF PA46	
	(0.0101 * XX) + 0.0166	5%	PA46	50327-22-5
	(0.00603 * XX) + 0.00996	5%	30% Glass Fibre	65997-17-3
	(0.00101 * XX) + 0.00166	5%	Antimony Trioxide	1309-64-4
	(0.00302 * XX) + 0.00498	5%	Other Brominated Flame Retardants [ISO 1043-4 Code No: FR(17)]	
Pick and Place Cap - Phosphor Bronze	0.0838	2%	Copper	7440-50-8
	0.00442	1%	Tin	7440-31-5
	0.000181	0.4%	Phosphorus	7723-14-0
	0	0.000177 max	Nickel (impurity only)	7440-02-0
	0	0.000177 max	Zinc (impurity only)	7440-66-6
	0	0.000088 max	Iron (impurity only)	7439-89-6
	0	0.000018 max	Lead (impurity only)	7439-92-1
	0	0.000177 max	Other Impurities	

Material Declaration for M80-681XXXXP

Product Information	
Part Number:	M80-681XX45P
Part Description:	2mm Female SMT Datamate
Part Weight (g):	(0.0714 * XX) + 0.0332

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 max	Iron (impurity only)	7439-89-6
	0	0.000144 * XX max	Tin (impurity only)	7440-31-5
Contact Shell - Plating	0	0.000144 * XX max	Nickel (impurity only)	7440-02-0
	0	0.000024 * XX max	Aluminium (impurity only)	7429-90-5
	0	0.00024 * XX 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 max	Nickel (impurity only)	7440-02-0
	0	0.000006 * XX max	Cobalt (impurity only)	7440-48-4
Contact Clip - Plating	0	0.000004 * XX max	Iron (impurity only)	7439-89-6
	0	0.000004 * XX max	Aluminium (impurity only)	7429-90-5
	0	0.000004 * XX max	Silicon (impurity only)	7440-21-3
	0	0.000011 * XX max	Other Impurities	
	0.000057 * XX	10%	Nickel	7440-02-0
Moulding (total weight) Containing:	0.000006 * XX	5%	Gold	7440-57-5
	(0.0201 * XX) + 0.0332	5%	30% GF PA46	
	(0.0101 * XX) + 0.0166	5%	PA46	50327-22-5
	(0.00603 * XX) + 0.00996	5%	30% Glass Fibre	65997-17-3
	(0.00101 * XX) + 0.00166	5%	Antimony Trioxide	1309-64-4
Pick and Place Cap - Phosphor Bronze	(0.00302 * XX) + 0.00498	5%	Other Brominated Flame Retardants [ISO 1043-4 Code No: FR(17)]	
	0.0838	2%	Copper	7440-50-8
	0.00442	1%	Tin	7440-31-5
	0.000181	0.4%	Phosphorus	7723-14-0
	0	0.000177 max	Nickel (impurity only)	7440-02-0
	0	0.000177 max	Zinc (impurity only)	7440-66-6
	0	0.000088 max	Iron (impurity only)	7439-89-6
	0	0.000018 max	Lead (impurity only)	7439-92-1
	0	0.000177 max	Other Impurities	

Prepared by: 

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

On behalf of:

