

## Material Composition for M22-202XXXX

Product Information	
Part Number:	M22-202XX05
Part Description:	2.00mm pitch Pin Header
Part Weight (g):	0.0478 * XX

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 #
Contact - Phosphor Bronze	0.0346 * XX	2%	Copper	7440-50-8
	0.00232 * XX	0.5%	Tin	7440-31-5
	0.000092 * XX	5%	Phosphorus	7723-14-0
	0	(0.000074 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000074 * XX)g max	Zinc (impurity only)	7440-66-6
	0	(0.000036 * XX)g max	Iron (impurity only)	7439-89-6
Contact - Plating	0	(0.000008 * XX)g max	Lead (impurity only)	7439-92-1
	0	(0.00184 * XX)g max	Other Impurities	
	0.000598 * XX	10%	Nickel	7440-02-0
	0.000064 * XX	5%	Gold	7440-57-5
Moulding (total weight) Containing:	0.01 * XX	5%	30% GF Nylon 6T	
	0.005 * XX	5%	Nylon 6T	63428-83-1
	0.003 * XX	5%	30% Glass Fibre	65997-17-3
	0.0005 * XX	5%	Antimony Trioxide	1309-64-4
	0.0015 * XX	5%	Other Brominated Flame Retardants [ISO 1043-4 Code No: FR(17)]	

Product Information	
Part Number:	M22-202XX46
Part Description:	2.00mm pitch Pin Header
Part Weight (g):	0.0483 * XX

Process Data	
Peak Reflow (Deg. C)	260°C for 10 seconds
Termination Finish	100% Tin over Nickel
RoHS Compliant? (Y/N)	Yes

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Contact - Phosphor Bronze	0.0346 * XX	2%	Copper	7440-50-8
	0.00232 * XX	0.5%	Tin	7440-31-5
	0.000092 * XX	5%	Phosphorus	7723-14-0
	0	(0.000074 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000074 * XX)g max	Zinc (impurity only)	7440-66-6
	0	(0.000036 * XX)g max	Iron (impurity only)	7439-89-6
Contact - Plating	0	(0.000008 * XX)g max	Lead (impurity only)	7439-92-1
	0	(0.00184 * XX)g max	Other Impurities	
	0.000598 * XX	10%	Nickel	7440-02-0
	0.000736 * XX	10%	Tin	7440-31-5
Moulding (total weight) Containing:	0.01 * XX	5%	30% GF Nylon 6T	
	0.005 * XX	5%	Nylon 6T	63428-83-1
	0.003 * XX	5%	30% Glass Fibre	65997-17-3
	0.0005 * XX	5%	Antimony Trioxide	1309-64-4
	0.0015 * XX	5%	Other Brominated Flame Retardants [ISO 1043-4 Code No: FR(17)]	

Note: Tin plating is subject to 1,000ppm max Lead impurity.

Prepared by: 

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

On behalf of:

