

## Material Composition for M22-220XXXX

Product Information	
Part Number:	M22-220XX46
Part Description:	2mm pitch Pin Header
Part Weight (g):	(0.0457 * XX) + 0.077

Process Data	
Peak Reflow (Deg. C)	260°C for 10 seconds
Termination Finish	100% Tin over Nickel
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 - Brass	0.0128 * XX	3%	Copper	7440-50-8
	0.00547 * XX	2%	Zinc	7440-66-6
	0	(0.000013 * XX)g max	Lead (impurity only)	7439-92-1
	0	(0.000009 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000018 * XX)g max	Tin (impurity only)	7440-31-5
	0	(0.000055 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000004 * XX)g max	Aluminium (impurity only)	7429-90-5
	0	(0.000018 * XX)g max	Other Impurities	
Contact - Plating	0.000303 * XX	10%	Nickel	7440-02-0
	0.000373 * XX	10%	Tin	7440-31-5
Moulding (total weight)	(0.0268 * XX) + 0.077	6%	33% GF Nylon 9T	
Containing:	(0.0115 * XX) + 0.0331	6%	Nylon 9T	169284-22-4
	(0.00884 * XX) + 0.0254	6%	Glass Fibre	65997-17-3
	(0.00563 * XX) + 0.0162	6%	Bromopolystyrene	88497-56-7
	(0.000804 * XX) + 0.00231	4%	Additives (such as Heat Stabilizer)	
Does not contain:			Antimony	

Prepared by: *M. J. Perry*

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

On behalf of: **HARWIN**