

## Material Composition for M55-700XX42R

Product Information	
Part Number:	M55-700XX42R
Part Description:	1.27mm pitch Connector
Part Weight (g):	(0.0227 * XX) + 0.145

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 - Phosphor Bronze	0.0108 * XX	5%	Copper	7440-50-8
	0.000718 * XX	1%	Tin	7440-31-5
	0.000022 * XX	0.5%	Phosphorus	7723-14-0
	0	(0.000023 * XX)g max	Zinc (impurity only)	7440-66-6
	0	(0.000011 * XX)g max	Iron (impurity only)	7439-89-6
Contact - Plating	0	(0.000006 * XX)g max	Lead (impurity only)	7439-92-1
	0	(0.000057 * XX)g max	Other Impurities	
	0.000155 * XX	10%	Nickel	7440-02-0
	0.000071 * XX	10%	Tin	7440-31-5
	0.000002 * XX	10%	Gold	7440-57-5
Retainers - Brass	0.0264	5%	Copper	7440-50-8
	0.0113	1%	Zinc	7440-66-6
	0	0.000008g max	Aluminium (impurity only)	7429-90-5
	0	0.000112g max	Nickel (impurity only)	7440-02-0
	0	0.000038g max	Tin (impurity only)	7440-31-5
	0	0.000018g max	Iron (impurity only)	7439-89-6
	0	0.000026g max	Lead (impurity only)	7439-92-1
	0	0.000038g max	Other Impurities	
Retainers - Plating	0.000522	10%	Nickel	7440-02-0
	0.00108	10%	Tin	7440-31-5
Moulding (total weight)	(0.0109 * XX) + 0.106	6%	33% GF LCP	
Containing:	(0.0073 * XX) + 0.071	6%	Liquid Crystal Polymer	
	(0.0036 * XX) + 0.035	6%	Glass Fibre	65997-17-3
Does not contain:			Other Brominated Flame Retardants	
			Antimony	

Prepared by: *M. J. Perry*

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

On behalf of: **HARWIN**