

## Material Composition for M50-365XX42R

Product Information	
Part Number:	M50-365XX42R
Part Description:	1.27mm pitch Socket
Part Weight (g):	(0.0684 * XX) + 0.86

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 #
Contacts - Brass	0.0172 * XX	5%	Copper	7440-50-8
	0.00738 * XX	5%	Zinc	7440-66-6
	0	(0.000024 * XX)g max	Tin (impurity only)	7440-31-5
	0	(0.000004 * XX)g max	Aluminium (impurity only)	7429-90-5
	0	(0.000074 * XX)g max	Nickel (impurity only)	7440-02-0
	0	(0.000012 * XX)g max	Iron (impurity only)	7439-89-6
	0	(0.000018 * XX)g max	Lead (impurity only)	7439-92-1
Contacts - Plating	0	(0.000024 * XX)g max	Other Impurities	
	0.000508 * XX	10%	Nickel	7440-02-0
	0.000004 * XX	30%	Gold	7440-57-5
	0.000332 * XX	30%	Tin	7440-31-5
Retainers - Brass	0.0084	5%	Copper	7440-50-8
	0.0036	5%	Zinc	7440-66-6
	0	0.000012g max	Tin (impurity only)	7440-31-5
	0	0.000002g max	Aluminium (impurity only)	7429-90-5
	0	0.000036g max	Nickel (impurity only)	7440-02-0
	0	0.000006g max	Iron (impurity only)	7439-89-6
	0	0.000008g max	Lead (impurity only)	7439-92-1
Retainers - Plating	0	0.000012g max	Other Impurities	
	0.000356	10%	Nickel	7440-02-0
	0.000372	30%	Tin	7440-31-5
Mouldings (total weight)	(0.043 * XX) + 0.729	6%	33% GF LCP	
Containing:	(0.0288 * XX) + 0.488	6%	Liquid Crystal Polymer	
	(0.0142 * XX) + 0.241	6%	Glass Fibre	65997-17-3
Does not contain:			Other Brominated Flame Retardants	
			Antimony	
Cap	0.118	6%	33% GF LCP	
Containing:	0.0791	6%	Liquid Crystal Polymer	
	0.0389	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**