



Product Description		IPC/JEDEC Standard 609A - Pb Free "2nd-Level Interconnect" Status										Soldering & Reflow Profile				RoHS Status				China Pollution Act Information (ST/11363-2006) - China RoHS Status						PCN Status						
Technology / Product Line	Product Family	Visiary Division	Pb-free Qualification Report Available (Yes/No)	Pb-free Samples Available (Yes/No)	Pb-free Mass Production (Yes/No)	Pb-free Material Code Marking	How to Order Lead Free Part (Web)	Termination Plating Finish	Plating Underlayer	Terminal Base Material/Alloy	Tin Lead (Sn/Pb) Product/Termination available (Yes/No)	J-STD-020 Moisture Sensitivity Level Rating	Backward Compatibility	Peak Reflow Temperature (deg C)	Time @ Peak Reflow Temperature (sec)	Maximum Number of Cycles Allowed @ Peak Reflow Temperature	RoHS Compliant (Yes/No/NA/E)	RoHS Compliant (Exemption Used) (Exemption # only)	RoHS Qualification Report Available (Yes/No)	RoHS Compliant (Samples Available) (Yes/No)	RoHS Compliant (Production) (G/V)	China RoHS Compliant (YES/NO) 中国 RoHS 符合 (是/否/无)	EPUP (YEARS) 环保期限 (年)	Location of Hazardous Substance(s) 有害物质所在附件	Pb 铅 X for C-MCV 0.1 wt% (SJ/T11363-2006)	Hg 汞 X for C-MCV 0.1 wt% (SJ/T11363-2006)	Cd 镉 X for C-MCV 0.01 wt% (SJ/T11363-2006)	Cr(VI) 六价铬 X for C-MCV 0.1 wt% (SJ/T11363-2006)	PBB 多溴联苯 X for C-MCV 0.1 wt% (SJ/T11363-2006)	PBDE 多溴二苯醚 X for C-MCV 0.1 wt% (SJ/T11363-2006)	Product Change Notification Ref: / Ref#	Product Change Notification Date
WW-SMD	WSP2515	DL	Yes	Yes	1:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	1:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-SMD	WSP4207	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-SMD	W5C12	DL	Yes	Yes	1:04	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:04	Yes	NA		O	O	O	O	O	O	NA	NA
WW-SMD	W5C1	DL	Yes	Yes	Information Not available	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	None	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	Information Not available	Yes	NA		O	O	O	O	O	O	NA	NA
WW-SMD	W5C2	DL	Yes	Yes	Information Not available	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	None	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	Information Not available	Yes	NA		O	O	O	O	O	O	NA	NA
WW-SMD	W5P2012	DL	Yes	Yes	4:04	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:04	Yes	NA		O	O	O	O	O	O	NA	NA
WW-SMD	W5E005	DL	Yes	Yes	4:04	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	NiCr	Yes	Test Pend	Test Pending	Test Pending	Test Pending	Test Pending	Yes	None	Yes	Yes	4:06	Yes	NA		O	O	O	O	O	O	NA	NA
WW-SMD	W1L_E	DL	Yes	Yes	1:06	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	99.3/0.7 Sn/Cu	None	NiCr	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	1:06	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	MMA	DL	No	Yes	10:12	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	None	NiCr	Yes	1	Yes	260°C	10	3	Yes	None	No	Yes	10:12	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	RES 1% MSP-MRB	DL	Yes	Yes	2:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper clad steel	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	2:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	ALSR ALVR	DL	Yes	Yes	10:12	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper clad steel	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	10:12	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CW_FA	DL	Yes	Yes	2:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper clad steel	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	2:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	Q	DL	Yes	Yes	1:06	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	1:06	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPSL MRWL	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPM	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPM ML	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPXC	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPXP	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPXP MRWXP	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper clad steel	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	Nickel	Copper clad steel	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O	O	NA	NA
WW-LEADED	CPW MRW	DL	Yes	Yes	4:05	Label (63) and (Pb)	Please refer datasheet on www.wishay.com	100% Sn(Matte)	SnCu IMC	Copper	Yes	1	Yes	260°C	10	3	Yes	None	Yes	Yes	4:05	Yes	NA		O	O	O	O	O			

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Technology	Product Line	Product Family	Viability Division	Pb-free Qualification Report Available (Yes/No)	Pb-free Samples Available (Yes/No)	Pb-free Mass Production (O/Y)	Pb-free Material Code Marking	How to Order Lead Free Part (Web)	Termination Plating Finish	Plating Underlayer	Terminals Base Material/Alloy	Tin Lead (Sn/Pb) Products/Termination available (Yes/No)	J-STD-020 Moisture Sensitivity Level Rating	Backward Compatibility	Peak Reflow Temperature (deg C)	Time @ Peak Reflow Temperature (sec)	Maximum Number of Cycles Allowed @ Peak Reflow Temperature	RoHS Compliant (Yes/No/YwE)	Exemptions Used (Exemption # only)	RoHS Qualification Available (Yes/No)	RoHS Compliant Samples Available (Yes/No)	RoHS Compliant Mass Production (O/Y)	China RoHS Compliant (YES/NO) 符合 中国 RoHS (是否)	EPUP (YEARS) 环保使用期限 (年)	Location of Hazardous Substance(s) 有毒有害物质 所在零件	Pb 铅 X for C-MCV O for C-MCV 0.1 wt% (SJ/T11363-2006)	Hg 汞 X for C-MCV O for C-MCV 0.1 wt% (SJ/T11363-2006)	Cd 镉 X for C-MCV O for C-MCV 0.01 wt% (SJ/T11363-2006)	Cr(VI) 六价铬 X for C-MCV O for C-MCV 0.1 wt% (SJ/T11363-2006)	PBB 多溴联苯 X for C-MCV O for C-MCV 0.1 wt% (SJ/T11363-2006)	PBDE 多溴二苯醚 X for C-MCV O for C-MCV 0.1 wt% (SJ/T11363-2006)	Product Change Notification Ref.#	Product Change Notification Date			
	Generic part numbers	28xxxx-xx types	DL	No	No													No		No	No	No	No													

Notes:  
NA indicates that the item is not applicable (i.e. not converting to Pb-Free)  
O : 表示该有毒物质在该部件所有均质材料中的含量均(SJ/T11363-2006 标准规定的限值要求以下, indicate all homogeneous materials' hazardous substances content are below the SJ/T11363-2006 MCV limit  
X : 表示该有毒物质的至少在该部件的某一均质材料中的含量超出(SJ/T11363-2006标准规定的限值要求, indicates that the hazardous substance content contained in any one of the homogeneous materials of the part exceeded the MCV limits specified in the Standard SJ/T 11363-2006  
This Document is subjected to change without notice