

Adaptor List Needhams EVP/VP/EMP line

TYPE of ADAPTER(new)	TYPE of ADAPTER(old)		Chip Size (mm X mm)	
WL-ISP	WL-ISP-U1			24
WL-BGA48-E146	WL-BGA48-320	0.75mm 6x8	7.58 X 9.81	540
WL-BGA79-E144	WL-BGA79-L30	0.75mm 7x9	9 X 11	630
WL-SDIP28-U001	WL-DIP28-1.78	1.78		90
WL-SDIP42-U001	WL-DIP42-1.78	1.78		240
WL-DIP40-M239	WL-DIP40-370C4X	1.78		240
WL-DIP40-M238	WL-DIP40-370C2X	1.78		240
WL-SDIP48-U001	WL-DIP48-1.78	1.78		240
	WL-DIP56-1.78	1.78		240
WL-SDIP64-E076	WL-DIP64-88PS49	1.78		420
WL-SDIP64-E123	WL-DIP64-63701	1.78		420
WL-SDIP64-E124	WL-DIP64-637Y	1.78		420
WL-SDIP64-E125	WL-DIP64-78P328	1.78		420
WL-SDIP64-E126	WL-DIP64-F3644	1.78		420
				0
WL-EBGA24-U001	WL-EBGA24-U1	1.0mm 5 x 5	6 X 8	660
WL-EBGA64-E138-1	WL-EBGA64-320	1.0mm 8 x 8	10 X 13	660
WL-EBGA64-E138-3	WL-EBGA64-320+	1.0mm 8 x 8	11 X 13	660
WL-EBGA64-E138-4	WL-EBGA64-320*	1.0mm 8 x 8	12 X 18	810
WL-EBGA64-E139-1	WL-EBGA64-640C3	1.0mm 8 x 8	10 X 13	660
WL-EBGA64-E140-1	WL-EBGA64-K18	1.0mm 8 x 8	10 X 13	660
WL-EBGA64-E140-2	WL-EBGA64-K18+	1.0mm 8 x 8	10 X 15	660
WL-EBGA64-E145-1	WL-EBGA64-P30	1.0mm 8 x 8	10 X 13	660
WL-EBGA64-E145-2	WL-EBGA64-P30+	1.0mm 8 x 8	10 X 15	660
WL-EBGA64-E145-4	WL-EBGA64-P30*	1.0mm 8 x 8	12 X 18	810
WL-FBGA48-P051	WL-CSP48-9536	0.8mm 8 x 10	8.4 X 14.8	750
WL-FBGA48-E137	WL-FBGA48-320	0.8mm 6 x 8	6 X 8	540

WL-FBGA56-E156	WL-FBGA56-56P	0.8mm 10 x 8	8.4 X 14.8	750
WL-FBGA63-E135-10	WL-FBGA63-1208-	0.8mm 6 x 8	8.5 X 13.5	900
WL-FBGA63-E135-12	WL-FBGA63-1208	0.8mm 6 x 8	9 X 11	900
WL-FBGA56-E156	WL-FBGA120-73P(WL-F	0.8mm 10 x 8	8.4 X 14.8	900
WL-FBGA80-E338-7		0.5mm 8*10	8X11	900
	WL-FQFP64-xxx	0.4mm 16*16		0
WL-LQFP64-E133	WL-LQFP64-87PH40	1.0mm 13 x 19	17.6 X 23.6	510
WL-LQFP80-M313	WL-LQFP80-8P16	0.8mm 16 x 24	17.9 X 23.9	630
WL-LQFP80-E132	WL-LQFP80-196MH	0.8mm 16 x 24	17.9 X 23.9	630
WL-LQFP80-E150	WL-LQFP80-29BDD	0.8mm 16 x 24	17.9 X 23.9	630
WL-LQFP80-E134	WL-LQFP80-87P21	0.8mm 16 x 24	17.9 X 23.9	630
		0.65mm 20 x 30	17.9 X 23.9	630
WL-LQFP100-M106	WL-LQFP100-F201	0.65mm 20 x 30	18.8 X 24.8	630
WL-LQFP100-E128	WL-LQFP100-3837	0.65mm 20 x 30	18.8 X 24.8	630
WL-LQFP100-E127	WL-LQFP100-3834	0.65mm 20 x 30	18.8 X 24.8	630
WL-LQFP100-P052	WL-LQFP100-9572	0.65mm 20 x 30	17.2 X 23.2	630
WL-LQFP100-P053	WL-LQFP100-5108	0.65mm 20 x 30	17.2 X 23.2	630
WL-LQFP128-E129	WL-LQFP128-F239	0.5mm 26 x 38	16 X 22	630
WL-LQFP256-E131(sim	WL-LQFP256-F705(sim	0.5mm 52 x 76	43 X 31	90
WL-PL20-U001	WL-PL20-U1	1.27 4*5		120
WL-PL28-U001	WL-PL28-U1	1.27 7*7		120
	WL-PL283244-Px	1.27		45
	WL-PL284468-370	1.27		90
	WL-PL32-P2	1.27 7*9		105
WL-PL32-U001	WL-PL32-U1	1.27 7*9		105
WL-PL32-U001 open T	WL-PL32-U1 open TOP	1.27 7*9		120
WL-PL44-P004	WL-PL44-P4	1.27 11*11		105
WL-PL44-U001	WL-PL44-U1	1.27 11*11		105
WL-PL44-P004 open TC	WL-PL44-P4 open TOP	1.27 11*11		165
WL-PL44-U001 open TC	WL-PL44-U1 open TOP	1.27 11*11		165
	WL-PL52-xxx	1.27 13*13		285
WL-PL52-M411	WL-PL52-5131	1.27 13*13		285

WL-PL52-M412	WL-PL52-813	1.27 13*13		285
WL-PL68-E091	WL-PL68-196K	1.27 17*17		390
WL-PL68-E092	WL-PL68-3257	1.27 17*17		390
WL-PL68-E093	WL-PL68-3258	1.27 17*17		390
WL-PL68-E094	WL-PL68-548	1.27 17*17		390
WL-PL68-E095	WL-PL68-550	1.27 17*17		390
WL-PL68-E096	WL-PL68-75X	1.27 17*17		390
WL-PL68-P063	WL-PL68-1024	1.27 17*17		390
WL-PL84-PO32	WL-PL84-1032	1.27 21*21		390
WL-PL84-PO54	WL-PL84-95108	1.27 21*21		390
WL-PL84-PO57	WL-PL84-9572	1.27 21*21		390
WL-PL84-P065	WL-PL84-1508	1.27 21*21		390
WL-PL84-E098	WL-PL84-196CB	1.27 21*21		390
WL-PL84-E099	WL-PL84-196MH	1.27 21*21		390
WL-PL84-E100	WL-PL84-3308	1.27 21*21		390
WL-PL84-E101	WL-PL84-3337	1.27 21*21		390
WL-PL84-E103	WL-PL84-H8/3337	1.27 21*21		390
WL-PL84-E104	WL-PL84-H8/534	1.27 21*21		390
WL-PL84-E105	WL-PL84-H8/536	1.27 21*21		390
WL-PL84-M099	WL-PL84-76X	1.27 21*21		390
	WL-PQFP52-xxxx	0.65mm 13 x 13	14 X 14	450
WL-PQFP52-M015		0.65mm 13 x 13	14 X 14	450
WL-PQFP80-E107	WL-PQFP80-H8534	0.65mm 20 x 20	17.2 X 17.2	510
WL-PQFP80-E108	WL-PQFP80-H8536	0.65mm 20 x 20	17.2 X 17.2	510
WL-PQFP80-M107	WL-PQFP80-515	0.65mm 20 x 20	17.2 X 17.2	510
WL-PQFP80-M403	WL-PQFP80-A32	0.65mm 20 x 20	17.2 X 17.2	510
	WL-PQFP80	0.65mm 20 x 20	16 X 16	510
		0.65mm 28 x 28	22 X 22	600
WL-PQFP112-E106	WL-PQFP112-7538	0.65mm 28 x 28	23.2 X 23.2	600
WL-PQFP112-M402	WL-PQFP112-A64	0.65mm 28 x 28	22 X 22	600
WL-PQFP112-E106	WL-PQFP112-F538	0.65mm 28 x 28	23.2 X 23.2	600
WL-PQFP160-P055		0.65mm 40 x 40	32.4 X 32.4	720

WL-PSOP44-U001	WL-PSOP44-U1	0.8 x 11.8mm		180
WL-PSOP56-E072	WL-PSOP56-F640	0.8 x 15.9mm		330
WL-PSOP56-E148	WL-PSOP56-800F3	0.8 x 15.9mm		330
WL-PSOP56-E149	WL-PSOP56-BL162	0.8 x 15.9mm		330
				0
WL-DFN8-U101	WL-QFN8-U1	0.5 x 3mm		540
WL-DFN8-U201	WL-SON8-U2	0.65 x 3mm		450
WL-DFN8-U501	WL-SON8-U1	1.27 x 6mm		450
WL-DFN8-U511	WL-MLP8-U1	1.27 x 8mm		450
WL-DFN10-U101	WL-QFN11-U1	0.5 x 3mm		540
				0
WL-QFN20-U101	WL-QFN20-U1	0.5mm 4 x 4mm		480
WL-QFN24-U101	WL-QFN24-U1	0.5mm 4 x 4mm		480
WL-QFN28-U103	WL-QFN28-U1	0.5mm 5 x 5mm		630
WL-QFN28-U203	WL-QFN28-U2	0.5mm 6 x 6mm		630
WL-QFN32-U101	WL-QFN32-U1	0.5mm 5 x 5mm		630
WL-QFN40-U101	WL-QFN40-U1	0.5mm 6 x 6mm		480
WL-QFN44-U001	WL-QFN44-U1	0.5mm 7 x 7mm		630
WL-QFN44-U202	WL-QFN44-U2	0.65mm 8 x 8mm		630
WL-QFN48-U101	WL-QFN48-U1	0.5mm 7 x 7mm		630
WL-QFN64-M232	WL-QFN64-149	0.5mm 9 x 9mm		510
	WL-QFN64-xxx	0.5mm 10 x 10mm		510
WL-SOP28-U001	WL-SOIC28-U1	1.27 x 10.3mm		120
WL-SOP8-U001	WL-SOP8-U1	1.27 x 6mm		60
WL-SOP16-U001	WL-SOP16-U1	1.27 x 6mm		60
WL-SOP20-U001	WL-SOP20-U1	1.27 x 7.8mm		120
WL-SOP28-U011	WL-SOP28-U1	1.27 x 12.1mm		150
WL-SOP32-U001	WL-SOIC32-U1	1.27 x 10.3mm		165
WL-SOP32-U011	WL-SOP32-U1	1.27 x 12.1mm		180
WL-SOP40-U001	WL-SOP40-U1	1.27 x 14.1mm		180
WL-SOP44-U001 open	WL-SOP44-U1 open TO	1.27 x 15.9mm		285
WL-SOP44-U001	WL-SOP44-U1	1.27 x 15.9mm		135

WL-SOT6-U001	WL-SOT6-U1	0.95 x 3mm		210
				0
WL-SSOP8-U011	WL-MSOP8-U1	0.65 x 4.9mm		180
WL-SSOP20-U001	WL-SSOP20-U1	0.65 x 6.4mm		210
WL-SSOP28-U001	WL-SSOP28-U1	0.65 x 6.4mm		135
WL-SSOP34-U001	WL-SSOP34-U1	0.65 x 7.8mm		165
WL-SSOP44-U001	WL-SSOP44-U1	0.65 x 8.1mm		270
WL-SSOP24-U101	WL-SSOP24(28)-U1	0.635 x 6mm		150
WL-SSOP48-U101	WL-SSOP48-U1	0.635 x 10.3mm		330
	WL-SSOP56-xxx	0.635 x 10.3mm		330
WL-QFP32-U002	WL-TQFP32-U1	0.8mm 8 x 8	9 X 9	210
WL-QFP44-U002	WL-TQFP44-U2	0.8mm 11 x 11	12 X 12	180
WL-QFP44-U012	WL-TQFP44-U1	0.8mm 11 x 11	13.2 X 13.2	180
WL-QFP44-U022	WL-QFP44-U1	0.8mm 11 x 11	13.9 X 13.9	210
	WL-QFP64-xxx-1	0.8mm 16 x 16	16 X16	450
	WL-QFP64-xxx-2	0.8mm 16 x 16	17X17	450
WL-QFP64-M217	WL-QFP64-103	0.8mm 16 x 16	16 X16	450
WL-QFP64-M234	WL-QFP64-AZ60	0.8mm 16 x 16	17.2 X 17.2	510
		0.8mm 16 x 16	17 X 17	510
WL-TQFP48-U001	WL-TQFP48-U1	0.5mm 12 x 12	9 X 9	300
WL-TQFP64-E117	WL-TQFP64-924	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-E118	WL-TQFP64-F3664	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-M105	WL-TQFP64-1210	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-M232	WL-TQFP64-149	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-M236	WL-TQFP64-2114	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-M237	WL-TQFP64-2131	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-M404	WL-TQFP64-32F	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-M405	WL-TQFP64-5011	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-M406	WL-TQFP64-6585	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-M407	WL-TQFP64-67J10	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-M408	WL-TQFP64-75X	0.5mm 16 x 16	12 X 12	510

WL-TQFP64-M409	WL-TQFP64-8051	0.5mm 16 x 16	12 X 12	510
WL-TQFP64-P058	WL-TQFP64-9572	0.5mm 16 x 16	12 X 12	510
WL-TQFP80-E107	WL-TQFP80-H8534	0.5mm 20 x 20	14 X 14	510
WL-TQFP80-E108	WL-TQFP80-H8536	0.5mm 20 x 20	14 X 14	510
WL-TQFP80-M410	WL-TQFP80-8585	0.5mm 20 x 20	14 X 14	510
WL-TQFP100-E110	WL-TQFP100-F304	0.5mm 25 x 25	16 X 16	630
WL-TQFP100-E151	WL-TQFP100-93P4	0.5mm 25 x 25	16 X 16	630
WL-TQFP100-M050	WL-TQFP100-M16C	0.5mm 25 x 25	16 X 16	630
WL-TQFP100-M235	WL-TQFP100-236X	0.5mm 25 x 25	16 X 16	630
WL-TQFP100-P035	WL-TQFP100-2128	0.5mm 25 x 25	16 X 16	630
WL-TQFP100-P047	WL-TQFP100-IM4A	0.5mm 25 x 25	16 X 16	630
WL-TQFP100-P059	WL-TQFP100-9572	0.5mm 25 x 25	16 X 16	630
WL-TQFP100-P064	WL-TQFP100-4064	0.5mm 25 x 25	16 X 16	630
WL-TQFP100-P060	WL-TQFP100-5144	0.5mm 25 x 25	16 X 16	630
WL-LQFP100-F201	WL-TQFP100-F201	0.5mm 25 x 25	16 X 16	630
WL-TQFP144-E114	WL-TQFP144-F266	0.5mm 36 x 36	22 X 22	630
WL-TQFP144-E115	WL-TQFP144-F704	0.5mm 36 x 36	22 X 22	630
WL-TQFP144-P056	WL-TQFP144-3256	0.5mm 36 x 36	22 X 22	630
WL-TQFP144-P061	WL-TQFP144-5144	0.5mm 36 x 36	22 X 22	630
WL-TQFP208-E116	WL-TQFP208-F705	0.5mm 52 x 52		810
WL-TQFP208-P046	WL-TQFP208-3256	0.5mm 52 x 52		810
WL-TQFP208-P062	WL-TQFP208-5288	0.5mm 52 x 52		810
WL-TSOP10-U001	WL-SSOP10-U1	0.5 x 4.9mm		210
WL-TSOP28-U102	WL-TSOP28-T	0.55 x 13.7mm		165
WL-TSOP32-U002	WL-TSOP32-T	0.5 x 14mm		150
WL-TSOP40-U001	WL-TSOP40-U1	0.5 x 14mm		165
WL-TSOP48-U001	WL-TSOP48-U1	0.5 x 20mm		135
WL-TSOP48-U002	WL-TSOP48-U2	0.5 x 20mm		135
WL-TSOP56-F640	WL-TSOP56-F640	0.5 x 20mm		240
WL-TSOP56-E147	WL-TSOP56-P30	0.5 x 20mm		240
WL-TSOP56-E141	WL-TSOP56-A641	0.5 x 20mm		240
	WL-TSOP56-A641M	0.5 x 20mm		240

WL-TSOP56-E142	WL-TSOP56-A641N	0.5 x 20mm		240
WL-TSOP90-E364(simp	WL-TSSOP90-XL12(sim	0.5mm x16mm		60
WL-VSOP48-U001	WL-VSOP48-U1	0.4 x 14mm		900