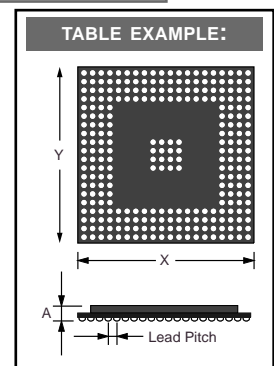


## BGA CHIP PACKAGE SPECIFICATIONS

Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA16A1	16	4 x 4	1.50mm	-	7 x 7	2.15
BGA24A1	24	6 x 4	1.27mm	Ceramic	9.53 x 6.89	1.85
BGA28A1	28	7 x 4	1.27mm	Ceramic	9.90 x 6.00	1.85
BGA28B1 *	28	15 x 15	1.27mm	-	23 x 23	1.27
BGA32A1 *	32	-	1.00mm	-	13 x 13	1.4
BGA34A1	34	8 x 11	1.52mm	-	11.81 x 16.71	1.52
BGA34A2	34	8 x 11	1.52mm	-	11.81 x 16.71	1.47
BGA36A1	36	10 x 10	1.27mm	-	13 x 13	1.4
BGA40A1	40	11 x 11	1.27mm	-	15 x 15	1.2
BGA40B1	40	5 x 8	0.75mm	-	5.69 x 7.43	0.69
BGA44A1 *	44	10 x 10	1.27mm	-	13 x 13	1.4
BGA46A1	46	6 x 8	0.80mm	-	6.67 x 8.00	-
BGA48A1 *	48	10 x 10	1.27mm	-	13 x 13	2.87
BGA48B1 *	48	7 x 7	1.27mm	-	11.48 x 11.48	2.64
BGA48C1	48	6 x 8	0.75mm	-	7.286 x 10.85	1
BGA48D1	48	6 x 8	0.80mm	-	8 x 9	-
BGA48E1	48	7 x 7	0.80mm	-	7 x 7	-
BGA48F1	48	6 x 8	0.80mm	-	7.0 x 8.5	-
BGA49A1	49	7 x 7	1.27mm	-	13 x 13	1.4
BGA49B1	49	7 x 7	0.80mm	-	7 x 7	-
BGA52A1	52	14 x 14	1.27mm	-	19 x 19	1.4
BGA54A1 *	54	13 x 13	1.52mm	-	23 x 23	2.13
BGA56A1 *	56	-	1.00mm	-	10 x 10	1.2
BGA56B1	56	9 x 10	1.52mm	-	16.26 x 17.78	2.13
BGA58A1 *	58	27 x 27	1.27mm	-	35 x 35	-
BGA58B1 *	58	15 x 15	1.27mm	-	23 x 23	2.29
BGA64A1 *	64	-	1.00mm	-	11 x 11	1.2
BGA64B1	64	10 x 10	1.27mm	-	13 x 13	1.4
BGA64C1 *	64	11 x 11	1.00mm	-	13 x 13	1.2
BGA64D1	64	17 x 17	1.27mm	-	23 x 23	1.4
BGA64E1	64	8 x 8	1.00mm	-	9 x 9	-
BGA64F1	64	8 x 8	0.80mm	-	8 x 8	-
BGA64G1	64	8 x 8	0.80mm	-	8 x 8	-

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN





### BGA CHIP PACKAGE SPECIFICATIONS

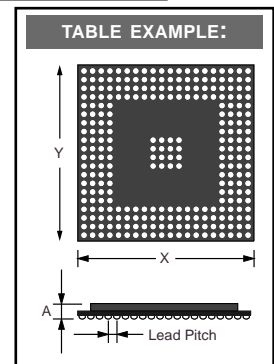
Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA68A1	68	8 x 9	1.52mm	-	13.46 x 14.97	2.13
BGA68A2	68	8 x 9	1.52mm	-	13.46 x 14.97	2.13
BGA68B1	68	8 x 9	1.52mm	-	13.16 x 14.73	2.89
BGA68B2	68	8 x 9	1.52mm	-	13.16 x 14.73	2.13
BGA72A1	72	8 x 9	1.52mm	-	-	-
BGA72B1	72	11 x 11	1.27mm	-	15 x 15	1.4
BGA72C1 *	72	9 x 9	1.00mm	-	10 x 10	1.36
BGA73A1 *	73	12 x 14	1.27mm	-	16.64 x 20.68	1.91
BGA74A1 *	74	11 x 11	1.27mm	-	15 x 15	2.5
BGA76A1 *	76	13 x 13	1.27mm	-	17 x 17	1.47
BGA76B1 *	76	15 x 15	1.27mm	-	23 x 23	2.64
BGA80A1 *	80	11 x 11	1.00mm	-	13 x 13	1.2
BGA80B1 *	80	10 x 10	0.80mm	-	9 x 9	1.45
BGA81A1	81	9 x 9	1.00mm	-	10 x 10	1.36
BGA84A1	84	23 x 23	1.50mm	Ceramic	35 x 35	2.26
BGA84B1	84	11 x 11	1.27mm	-	15 x 15	-
BGA86A1	86	9 x 10	1.52mm	-	16.26 x 17.78	2.13
BGA86B1	86	9 x 10	1.50mm	-	15.0 x 16.5	-
BGA90A1	90	9 x 10	1.52mm	-	16.26 x 17.78	-
BGA92A1 *	92	11 x 11	1.50mm	-	27 x 27	1.73
BGA96A1	96	14 x 14	1.27mm	-	19 x 19	1.4
BGA96B1	96	11 x 11	1.27mm	-	15 x 15	1.4
BGA100A1	100	10 x 10	1.27mm	-	16 x 16	-
BGA100B1	100	10 x 10	1.00mm	-	11 x 11	-
BGA100C1	100	10 x 10	0.80mm	-	10 x 10	-
BGA106A1	106	10 x 11	1.52mm	-	17.40 x 19.05	2.13
BGA107A1 *	107	16 x 19	1.27mm	Ceramic	20.95 x 24.70	-
BGA108A1	108	13 x 13	1.50mm	Plastic	23 x 23	2.13
BGA108B1	108	12 x 12	1.00mm	-	13 x 13	-
BGA110A1	110	10 x 11	1.52mm	-	17.40 x 19.05	-
BGA117A1	117	11 x 11	1.50mm	-	19 x 19	2.13
BGA119A1	119	7 x 17	1.27mm	Plastic	14 x 22	2.1
BGA119A2	119	7 x 17	1.27mm	Plastic	14 x 22	2.32
BGA119A3	119	7 x 17	1.27mm	Plastic	14 x 22	2.26
BGA119A4	119	7 x 17	1.27mm	Plastic	14 x 22	2.13
BGA119B1	119	7 x 17	1.27mm	Plastic	14.0 x 19.5	0.9
BGA120A1 *	120	17 x 17	1.50mm	-	27 x 27	-
BGA120B1	120	17 x 17	1.27mm	-	23 x 23	1.4
BGA120C1 *	120	16 x 19	1.27mm	Ceramic	20.95 x 24.70	-
BGA121A1	121	11 x 11	1.27mm	Plastic	15 x 15	2.13
BGA121A2	121	11 x 11	1.27mm	Plastic	15 x 15	1.97
BGA121B1	121	11 x 11	1.50mm	-	19 x 19	-

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN

## BGA CHIP PACKAGE SPECIFICATIONS

Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA121C1 *	121	11 x 11	1.00mm	-	12 x 12	1.1
BGA126A1 *	126	19 x 19	1.27mm	-	24.7 x 24.7	6.5
BGA127A1 *	127	25 x 25	1.27mm	Ceramic	32.33 x 32.33	8.49
BGA128A1	128	20 x 20	1.50mm	Plastic	35 x 35	2.53
BGA128B1	128	12 x 12	1.27mm	-	17 x 17	-
BGA132A1	132	14 x 14	1.27mm	Plastic	19 x 19	1.4
BGA136A1	136	19 x 19	1.27mm	-	25 x 25	1.4
BGA140A1	140	12 x 12	1.50mm	-	21 x 21	2.13
BGA140B1	140	12 x 12	1.27mm	Plastic	19 x 19	2.13
BGA140C1 *	140	14 x 17	1.27mm	-	20.95 x 24.07	1.93
BGA143A1	143	11 x 13	1.50mm	-	-	-
BGA143B1	143	11 x 13	1.27mm	-	-	-
BGA144A1	144	12 x 12	1.50mm	Plastic	21 x 21	2.15
BGA144B1	144	20 x 20	1.27mm	-	27 x 27	1.4
BGA144B2	144	20 x 20	1.27mm	-	27 x 27	2.4
BGA144C1	144	12 x 12	1.00mm	-	13 x 13	-
BGA144D1 *	144	15 x 15	1.50mm	-	27 x 27	-
BGA144E1	144	12 x 12	1.27mm	-	19 x 19	-
BGA144F1	144	13 x 13	0.80mm	-	12 x 12	1.4
BGA144G1	144	14 x 14	0.80mm	-	12 x 12	-
BGA145A1 *	145	25 x 25	1.27mm	-	32.33 x 32.33	-
BGA148A1	148	15 x 15	0.65mm	-	-	-
BGA152A1	152	23 x 23	1.50mm	Plastic	35 x 35	2.53
BGA152B1 *	152	21 x 21	1.27mm	-	29 x 29	1.54
BGA153A1	153	9 x 17	1.27mm	-	14 x 22	2.13
BGA156A1	156	14 x 14	1.00mm	-	15 x 15	2.13
BGA156B1 *	156	16 x 16	1.27mm	-	21 x 21	1.55
BGA160A1	160	15 x 15	1.50mm	Plastic	27 x 27	2.13
BGA160B1	160	18 x 13	1.27mm	Plastic	23.11 x 16.76	1.58
BGA160C1	160	14 x 14	1.00mm	-	15 x 15	-
BGA160D1	160	14 x 14	1.00mm	-	15 x 15	-
BGA160E1	160	14 x 14	0.80mm	-	12 x 12	-
BGA160F1 *	160	14 x 14	0.80mm	Plastic	13 x 13	1.55

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN





### BGA CHIP PACKAGE SPECIFICATIONS

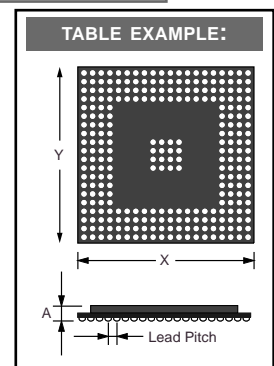
Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA162A1 *	162	15 x 15	1.50mm	Plastic	23 x 23	2.15
BGA165A1	165	13 x 13	1.50mm	Plastic	22 x 22	2.13
BGA165B1 *	165	13 x 13	1.50mm	Plastic	23 x 23	2.13
BGA168A1	168	17 x 17	1.27mm	-	23 x 23	1.4
BGA168B1	168	23 x 23	1.27mm	SBGA	31 x 31	1.4
BGA168C1 *	168	17 x 17	1.00mm	-	18 x 18	-
BGA168D1	168	14 x 14	0.80mm	-	12.2 x 12.2	-
BGA168E1	168	13 x 13	0.80mm	-	11 x 11	-
BGA169A1	169	13 x 13	1.27mm	Plastic	19 x 19	1.96
BGA169B1	169	13 x 13	1.50mm	Plastic	23 x 23	2.15
BGA169B2	169	13 x 13	1.50mm	Plastic	23 x 23	2.32
BGA169C1	169	13 x 13	1.52mm	-	23 x 23	2.13
BGA169D1	169	13 x 13	1.50mm	Plastic	22 x 22	2.13
BGA169E1	169	13 x 13	1.27mm	-	19.25 x 19.25	-
BGA172A1	172	18 x 13	1.27mm	Plastic	23.11 x 16.76	1.58
BGA174A1	174	18 x 18	1.27mm	Plastic	23 x 23	1.58
BGA174B1	174	18 x 18	1.27mm	-	23 x 23	2.3
BGA175A1	175	15 x 15	0.80mm	-	13 x 13	-
BGA175B1	175	14 x 14	1.27mm	-	19 x 19	-
BGA176A1	176	18 x 13	1.27mm	Plastic	23.11 x 16.76	1.58
BGA176B1	176	17 x 17	0.80mm	Plastic	15 x 15	1.3
BGA176C1	176	14 x 14	1.00mm	-	15 x 15	-
BGA179A1 *	179	14 x 14	0.80mm	-	12 x 12	1.3
BGA180A1	180	14 x 14	0.80mm	-	12 x 12	1.3
BGA192A1 *	192	17 x 17	1.27mm	Plastic	27 x 27	2.13
BGA192B1	192	19 x 19	1.27mm	-	25 x 25	1.4
BGA192B2	192	19 x 19	1.27mm	-	25 x 25	1.54
BGA192C1	192	26 x 26	1.27mm	SBGA	35 x 35	1.4
BGA192D1	192	16 x 16	1.00mm	-	17 x 17	-
BGA192E1	192	16 x 16	1.27mm	-	21 x 21	-
BGA196A1	196	14 x 14	1.27mm	Ceramic	18.5 x 18.5	-
BGA196B1	196	22 x 22	1.50mm	Ceramic	33 x 33	1.7
BGA196C1	196	14 x 14	1.00mm	Plastic	15 x 15	1.56
BGA196D1	196	14 x 14	1.00mm	Plastic	17 x 17	-
BGA196E1	196	14 x 14	0.80mm	-	12 x 12	1.4
BGA196F1	196	22 x 22	1.00mm	-	23 x 23	-
BGA196G1	196	16 x 16	1.00mm	-	17 x 17	-
BGA199A1	199	15 x 15	0.80mm	-	13 x 13	-
BGA204A1	204	20 x 20	1.27mm	Plastic	27 x 27	1.38
BGA204A2	204	20 x 20	1.27mm	Plastic	27 x 27	1.64
BGA204B1 *	204	23 x 23	1.27mm	Plastic	31 x 31	1.4
BGA208A1	208	17 x 17	1.27mm	Plastic	23 x 23	2.13

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN

## BGA CHIP PACKAGE SPECIFICATIONS

Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA208A2	208	17 x 17	1.27mm	-	23 x 23	1.4
BGA208B1	208	20 x 20	1.27mm	-	27 x 27	2.14
BGA208C1	208	16 x 16	1.00mm	-	17 x 17	1.56
BGA208D1	208	17 x 17	0.80mm	-	15 x 15	1.1
BGA208E1	208	20 x 20	1.27mm	-	27 x 27	-
BGA209A1 *	209	19 x 19	0.80mm	Plastic	16 x 16	1.3
BGA209B1	209	11 x 19	1.27mm	-	21 x 25	-
BGA213A1	213	19 x 19	1.27mm	-	25 x 25	-
BGA216A1	216	25 x 25	1.27mm	Plastic	35 x 35	2.33
BGA217A1	217	17 x 17	1.27mm	Plastic	23 x 23	2.13
BGA224A1	224	18 x 18	1.27mm	-	23 x 23	2.07
BGA224B1	224	18 x 18	0.80mm	-	16 x 16	-
BGA225A1	225	15 x 15	1.27mm	-	23 x 23	2.13
BGA225B1	225	15 x 15	1.50mm	Plastic	27 x 27	2.15
BGA225B2	225	15 x 15	1.50mm	Plastic	27 x 27	2.37
BGA225B3	225	15 x 15	1.50mm	Ceramic	27 x 27	3.52
BGA225B4	225	15 x 15	1.50mm	Ceramic	27 x 27	4.49
BGA225B5	225	15 x 15	1.50mm	Ceramic	27 x 27	3.94
BGA225B6	225	15 x 15	1.50mm	Plastic	27 x 27	1.73
BGA225B7	225	15 x 15	1.50mm	Ceramic	27 x 27	2.7
BGA225C1	225	21 x 21	1.27mm	Plastic	27 x 27	2.13
BGA225D1	225	15 x 15	1.27mm	-	21 x 21	-
BGA228A2	228	19 x 19	1.27mm	Ceramic	24.7 x 24.7	0.96
BGA228A3	228	19 x 19	1.27mm	Ceramic	24.7 x 24.7	1.65
BGA228B1	228	19 x 19	1.27mm	-	25.67 x 25.67	4.5
BGA228C1	228	18 x 18	1.27mm	-	23 x 23	2.07
BGA228D1 *	228	16 x 16	1.27mm	-	21 x 21	3.43 max
BGA238A3	238	14 x 17	1.27mm	Ceramic	20.95 x 24.07	3.00
BGA239A1	239	16 x 16	0.80mm	-	13 x 13	-
BGA240A1	240	23 x 23	1.27mm	Plastic	31 x 31	1.38
BGA240A2	240	23 x 23	1.27mm	SBGA	31 x 31	1.4
BGA240B2	240	19 x 19	1.27mm	Plastic	25 x 25	1.34
BGA240B3	240	19 x 19	1.27mm	Plastic	25 x 25	1.4

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN





### BGA CHIP PACKAGE SPECIFICATIONS

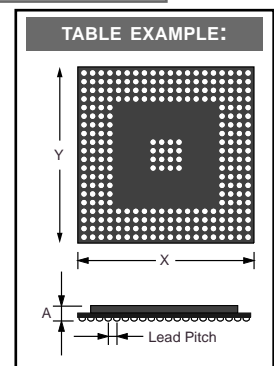
Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA240B4	240	19 x 19	1.27mm	Plastic	25 x 25	1.52
BGA240B5	240	19 x 19	1.27mm	Plastic	25 x 25	1.72
BGA240C1 *	240	25 x 25	1.27mm	Ceramic	32.5 x 32.5	-
BGA240D1	240	23 x 23	1.50mm	Ceramic	35 x 35	4.49
BGA240E1	240	19 x 19	1.27mm	Plastic	27 x 27	-
BGA240F1	240	19 x 19	1.27mm	-	26.4 x 26.4	-
BGA240G1	240	24 x 24	1.27mm	-	32 x 32	-
BGA241A1 *	241	19 x 19	1.27mm	-	25 x 25	-
BGA241B1	241	17 x 17	1.27mm	-	23 x 23	-
BGA244A1	244	19 x 19	1.27mm	-	25 x 25	1.96
BGA244B1	244	16 x 16	1.50mm	Ceramic	25 x 25	1.9
BGA248A1	248	20 x 20	1.27mm	Plastic	27 x 27	2.13
BGA249A1 *	249	-	1.27mm	-	23 x 23	-
BGA252A1	252	16 x 16	1.27mm	Plastic	21 x 21	2.6
BGA252A2	252	16 x 16	1.27mm	Plastic	21 x 21	2.7
BGA252A3	252	16 x 16	1.27mm	Plastic	21 x 21	2.83
BGA252B1	252	24 x 24	1.27mm	Ceramic	33.71 x 33.71	4.2
BGA252B2	252	24 x 24	1.27mm	Ceramic	33.71 x 33.71	2.4
BGA252B3	252	24 x 24	1.27mm	Ceramic	33.71 x 33.71	2
BGA255A1	255	16 x 16	1.27mm	Ceramic	21 x 21	2
BGA255A2	255	16 x 16	1.27mm	Ceramic	21 x 21	1.89
BGA255A3	255	16 x 16	1.27mm	Ceramic	21 x 21	3.16
BGA255A4	255	16 x 16	1.27mm	Ceramic	21 x 21	2.73
BGA255A5	255	16 x 16	1.27mm	Ceramic	21 x 21	2.33
BGA255B1	255	20 x 20	1.27mm	Ceramic	27 x 27	3.19
BGA255B2	255	20 x 20	1.27mm	Ceramic	27 x 27	3.23
BGA256A1	256	20 x 20	1.27mm	Plastic	27 x 27	2.13
BGA256A2	256	20 x 20	1.27mm	Plastic	27 x 27	2.36
BGA256A3	256	20 x 20	1.27mm	Plastic	27 x 27	2.33
BGA256A4	256	20 x 20	1.27mm	Plastic	27 x 27	1.38
BGA256A5	256	20 x 20	1.27mm	Plastic	27 x 27	2.5
BGA256B2	256	16 x 16	1.27mm	Ceramic	21 x 21	1.98
BGA256B3	256	16 x 16	1.27mm	Ceramic	21 x 21	2.13
BGA256C1	256	23 x 23	1.27mm	Ceramic	30 x 30	3.12
BGA256C2	256	23 x 23	1.27mm	Plastic	30 x 30	3.1
BGA256C3	256	23 x 23	1.27mm	Plastic	30 x 30	2.6
BGA256D1	256	16 x 16	1.50mm	-	29 x 29	-
BGA256E1	256	16 x 16	1.00mm	-	17 x 17	1.1
BGA256F1	256	16 x 16	1.27mm	Plastic	23 x 23	2.13
BGA256G1	256	16 x 16	1.00mm	-	19 x 19	-
BGA256H1	256	23 x 23	1.27mm	-	30 x 30	-
BGA268A1	268	20 x 20	1.27mm	-	27 x 27	-

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN

## BGA CHIP PACKAGE SPECIFICATIONS

Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA272A1	272	20 x 20	1.27mm	Plastic	27 x 27	2.13
BGA272A2	272	20 x 20	1.27mm	Plastic	27 x 27	2.15
BGA272A3	272	20 x 20	1.27mm	Plastic	27 x 27	2.33
BGA272B1	272	21 x 21	1.27mm	SBGA	29 x 29	1.38
BGA272B2	272	21 x 21	1.27mm	Ceramic	29 x 29	2.34
BGA272B3	272	21 x 21	1.27mm	Ceramic	29 x 29	1.65
BGA276A1	276	26 x 26	1.27mm	SBGA	35 x 35	1.4
BGA276B1	276	27 x 27	1.27mm	-	35 x 35	2.13
BGA280A1	280	19 x 19	1.27mm	-	25 x 25	1.95
BGA280B1	280	23 x 23	1.27mm	Plastic	31 x 31	1.21
BGA281A1 *	281	20 x 20	1.50mm	Plastic	35 x 35	2.53
BGA288A1	288	27 x 27	1.27mm	Ceramic	35 x 35	3.18
BGA288B1	288	22 x 22	1.00mm	-	23 x 23	-
BGA289A1	289	17 x 17	1.27mm	Ceramic	23 x 23	2.33
BGA292A1	292	20 x 20	1.27mm	Plastic	27 x 27	2.13
BGA292A2	292	20 x 20	1.27mm	Plastic	27 x 27	2.26
BGA292B1	292	19 x 19	1.27mm	-	25 x 25	1.91
BGA292C1	292	19 x 19	1.27mm	-	25 x 25	-
BGA296A1	296	22 x 22	1.27mm	TBGA	29 x 29	1.96
BGA300A1	300	20 x 20	1.27mm	-	27 x 27	2.33
BGA300B1	300	19 x 19	1.27mm	-	25 x 25	3.31
BGA300C1	300	20 x 20	1.27mm	-	27 x 27	-
BGA303A1	303	16 x 19	1.27mm	Ceramic	21 x 25	1.8
BGA303A2	303	16 x 19	1.27mm	Ceramic	21 x 25	2.36
BGA303B1	303	16 x 19	1.27mm	-	21 x 25	-
BGA304A1	304	23 x 23	1.27mm	Plastic	31 x 31	2.33
BGA304A2	304	23 x 23	1.27mm	SBGA	31 x 31	1.4
BGA304A3	304	23 x 23	1.27mm	HBGA	31 x 31	1.55
BGA304C1	304	24 x 24	1.27mm	-	-	-
BGA304D1	304	16 x 19	1.27mm	Ceramic	20.95 x 24.70	-
BGA304E1	304	22 x 22	0.80mm	-	19 x 19	-
BGA304F1	304	16 x 19	1.27mm	-	21 x 25	-
BGA308A1 *	308	20 x 20	1.27mm	-	27 x 27	-

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN





### BGA CHIP PACKAGE SPECIFICATIONS

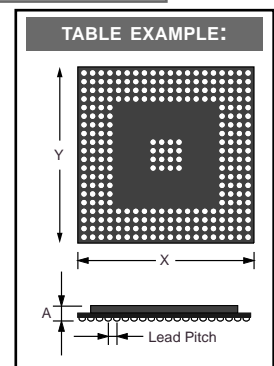
Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA312A1	312	29 x 29	1.27mm	Plastic	37.5 x 37.5	1.38
BGA312A2	312	29 x 29	1.27mm	-	37.5 x 37.5	1.54
BGA313A1	313	25 x 25	1.27mm	Plastic	35 x 35	2.57
BGA313A2	313	25 x 25	1.27mm	Plastic	35 x 35	2.33
BGA313A3	313	25 x 25	1.27mm	Plastic	35 x 35	3
BGA313A4	313	25 x 25	1.27mm	Plastic	35 x 35	2.83
BGA313A5	313	25 x 25	1.27mm	Plastic	35 x 35	2.13
BGA313A6	313	25 x 25	1.27mm	Plastic	35 x 35	2.39
BGA313A7	313	25 x 25	1.27mm	Ceramic	35 x 35	4.8
BGA313A8	313	25 x 25	1.27mm	Ceramic	35 x 35	3.5
BGA313A9	313	25 x 25	1.27mm	Plastic	35 x 35	3.15
BGA313A10	313	25 x 25	1.27mm	Plastic	35 x 35	2.99
BGA314A1	314	20 x 20	1.27mm	-	27 x 27	-
BGA315A1	315	26 x 26	1.27mm	-	35 x 35	-
BGA316A1	316	24 x 24	1.27mm	Ceramic	31 x 31	2.25
BGA316B1	316	20 x 20	1.27mm	Plastic	27 x 27	2.29
BGA319A1	319	21 x 21	1.27mm	TBGA	29 x 29	1.42
BGA320A1	320	24 x 24	1.27mm	TBGA	31 x 31	1.91
BGA320A2	320	24 x 24	1.27mm	TBGA	31 x 31	2.13
BGA320A3	320	24 x 24	1.27mm	TBGA	31 x 31	1.45
BGA320A4	320	24 x 24	1.27mm	TBGA	31 x 31	2.5
BGA320B1	320	20 x 20	1.27mm	Plastic	27 x 27	2.13
BGA320C1	320	21 x 21	1.27mm	TBGA	29 x 29	1.32
BGA320D1	320	20 x 20	1.27mm	-	27 x 27	-
BGA324A1	324	20 x 20	1.00mm	-	21 x 21	-
BGA324B1	324	20 x 20	1.27mm	TBGA	27 x 27	2.33
BGA324C1 *	324	24 x 24	1.27mm	Plastic	31 x 31	1.91
BGA324D1	324	18 x 18	1.50mm	Plastic	32 x 32	-
BGA324E1	324	20 x 20	1.27mm	Plastic	27 x 27	2.13
BGA324F1	324	20 x 20	1.27mm	-	-	-
BGA324G1	324	18 x 18	1.00mm	-	19 x 19	-
BGA324H1	324	18 x 18	1.27mm	-	23 x 23	-
BGA324J1	324	22 x 22	1.00mm	-	23 x 23	-
BGA328A1	328	26 x 26	1.27mm	Plastic	35 x 35	2.13
BGA328B1	328	20 x 20	1.27mm	Plastic	27 x 27	2.33
BGA328B2	328	20 x 20	1.27mm	Plastic	27 x 27	2.27
BGA328C1 *	328	20 x 20	1.27mm	-	27 x 27	-
BGA329A1	329	23 x 23	1.27mm	Plastic	31 x 31	2.33
BGA336A1	336	23 x 23	1.27mm	TBGA	31 x 31	1.21
BGA336B1	336	20 x 20	1.27mm	-	27 x 27	-
BGA339A1	339	22 x 22	1.27mm	TBGA	31 x 31	1.42
BGA340A1	340	22 x 22	1.27mm	Plastic	29 x 29	1.34

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN

## BGA CHIP PACKAGE SPECIFICATIONS

Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA340A2	340	22 x 22	1.27mm	Plastic	29 x 29	1.25
BGA340B1	340	26 x 26	1.27mm	-	35 x 35	-
BGA345A1 *	345	20 x 20	1.27mm	Plastic	31 x 31	2.33
BGA352A1	352	26 x 26	1.27mm	Plastic	35 x 35	2.33
BGA352A2	352	26 x 26	1.27mm	Plastic	35 x 35	1.38
BGA352A3	352	26 x 26	1.27mm	Plastic	35 x 35	3.2
BGA352A4	352	26 x 26	1.27mm	Plastic	35 x 35	1.03
BGA352A5	352	26 x 26	1.27mm	Ceramic	35 x 35	4.05
BGA352A6	352	26 x 26	1.27mm	SBGA	35 x 35	1.4
BGA352A7	352	26 x 26	1.27mm	TBGA	35 x 35	2.6
BGA352A8	352	26 x 26	1.27mm	TBGA	35 x 35	2.13
BGA352A9	352	26 x 26	1.27mm	Plastic	35 x 35	1.63
BGA352B1 *	352	26 x 26	1.00mm	S-PBGA	27 x 27	3.5
BGA356A1	356	26 x 26	1.27mm	SBGA	35 x 35	1.5
BGA356A2	356	26 x 26	1.27mm	-	35 x 35	1.45
BGA356B1	356	20 x 20	1.27mm	-	27 x 27	-
BGA357A1	357	19 x 19	1.27mm	Plastic	25 x 25	1.76
BGA357A2	357	19 x 19	1.27mm	Plastic	25 x 25	2.13
BGA357A3	357	19 x 19	1.27mm	Plastic	25 x 25	2.05
BGA360A1	360	19 x 19	1.27mm	Ceramic	25 x 25	1.93
BGA360A2	360	19 x 19	1.27mm	Ceramic	25 x 25	2.93
BGA360A3	360	19 x 19	1.27mm	Ceramic	25 x 25	2.74
BGA360A4	360	19 x 19	1.27mm	-	25 x 25	1.1
BGA360A6	360	19 x 19	1.27mm	Ceramic	25 x 25	4.98
BGA360A7	360	19 x 19	1.27mm	Ceramic	25 x 25	5.73
BGA360B1	360	21 x 21	1.27mm	TBGA	27 x 27	1.95
BGA360C1	360	23 x 23	1.27mm	SBGA	31 x 31	1.4
BGA360D1 *	360	19 x 19	1.27mm	-	27 x 27	2.28
BGA360E1	360	22 x 22	1.00mm	-	23 x 23	-
BGA361A1	361	19 x 19	1.27mm	Plastic	25 x 25	1.76
BGA361A2	361	19 x 19	1.27mm	Ceramic	25 x 25	2.15
BGA361A3	361	19 x 19	1.27mm	-	25 x 25	0.89
BGA361B1	361	19 x 19	1.50mm	Ceramic	29 x 29	2.6

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN





### BGA CHIP PACKAGE SPECIFICATIONS

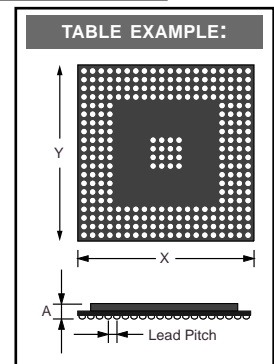
Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA361B2	361	19 x 19	1.50mm	Ceramic	29 x 29	4
BGA361B3	361	19 x 19	1.50mm	Ceramic	29 x 29	2
BGA361C1	361	19 x 19	1.27mm	Ceramic	24.7 x 24.7	1.63
BGA361C2	361	19 x 19	1.27mm	Ceramic	24.7 x 24.7	4.95
BGA361C3	361	19 x 19	1.27mm	Ceramic	24.7 x 24.7	4.58
BGA361C4	361	19 x 19	1.27mm	Ceramic	24.7 x 24.7	5.04
BGA361D1	361	19 x 19	1.50mm	-	33 x 33	-
BGA372A1	372	20 x 20	1.50mm	Plastic	35 x 35	2.53
BGA372B1	372	20 x 20	1.27mm	-	27 x 27	2.33
BGA379A1	379	24 x 24	1.27mm	TBGA	31 x 31	3.12
BGA379B1	379	24 x 24	1.27mm	TBGA	33 x 33	1.42
BGA380A1	380	24 x 24	1.27mm	Plastic	35 x 35	2.33
BGA380B1	380	24 x 24	1.27mm	Plastic	31 x 31	1.97
BGA380B2	380	24 x 24	1.27mm	Plastic	31 x 31	1.77
BGA380B4	380	24 x 24	1.27mm	TBGA	31 x 31	1.97
BGA380C1 *	380	24 x 24	1.27mm	TBGA	33 x 33	1.52
BGA384A1	384	22 x 22	1.27mm	TBGA	29 x 29	1.95
BGA384B1	384	28 x 28	1.27mm	-	37 x 37	-
BGA384C1 *	384	20 x 20	1.27mm	-	27 x 27	-
BGA385A1 *	385	-	1.27mm	-	31 x 31	-
BGA385B1	385	23 x 23	1.27mm	-	31 x 31	2.33
BGA387A1	387	26 x 26	1.27mm	Plastic	35 x 35	2.33
BGA388A1	388	26 x 26	1.27mm	Plastic	35 x 35	2.33
BGA388A2	388	26 x 26	1.27mm	Plastic	35 x 35	2.64
BGA388A3	388	26 x 26	1.27mm	Plastic	35 x 35	2.53
BGA388A4	388	26 x 26	1.27mm	Plastic	35 x 35	2.64
BGA391A1 *	391	21 x 21	1.27mm	-	29 x 29	-
BGA396A1	396	20 x 20	1.50mm	Plastic	35 x 35	2.53
BGA400A1	400	20 x 20	1.00mm	-	21 x 21	2.15
BGA400B1	400	20 x 20	1.27mm	Plastic	29 x 29	-
BGA400C1 *	400	26 x 26	1.27mm	Plastic	35 x 35	2.4
BGA400C2 *	400	26 x 26	1.27mm	Plastic	35 x 35	2.1
BGA400D1	400	25 x 25	1.27mm	Plastic	35 x 35	3.2
BGA400E1	400	20 x 20	1.50mm	Plastic	35 x 35	2.53
BGA400E2	400	20 x 20	1.50mm	Plastic	35 x 35	3.4
BGA400E3	400	20 x 20	1.50mm	Plastic	35 x 35	3.96
BGA400E4	400	20 x 20	1.50mm	Plastic	35 x 35	2.33
BGA400E5	400	20 x 20	1.50mm	Ceramic	35 x 35	1.93
BGA400F1	400	20 x 20	1.27mm	Plastic	27 x 27	2.33
BGA400F2	400	20 x 20	1.27mm	Plastic	27 x 27	2.13
BGA400G1 *	400	29 x 29	1.27mm	-	40 x 40	-
BGA408A1	408	26 x 26	1.27mm	TBGA	35 x 35	1.21

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN

## BGA CHIP PACKAGE SPECIFICATIONS

Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA408B2	408	37 x 37	1.27mm	-	47.5 x 47.5	1.4
BGA416A1	416	27 x 27	1.27mm	Plastic	35 x 35	2.1
BGA416A2	416	27 x 27	1.27mm	Plastic	35 x 35	3.1
BGA416B1	416	30 x 30	1.27mm	Plastic	40 x 40	3.2
BGA416C1 *	416	30 x 30	1.27mm	-	39 x 39	-
BGA416D1	416	26 x 26	1.27mm	-	35 x 35	-
BGA420A1	420	24 x 24	1.00mm	-	-	-
BGA420B1	420	26 x 26	1.27mm	Plastic	35 x 35	2.33
BGA420B2	420	26 x 26	1.27mm	Plastic	35 x 35	1.1
BGA420B3	420	26 x 26	1.27mm	Plastic	35 x 35	1.4
BGA421A1	421	29 x 29	1.27mm	-	40 x 40	-
BGA421B1	421	23 x 23	1.27mm	-	31 x 31	-
BGA422A1	422	27 x 27	1.27mm	TBGA	35 x 35	1.96
BGA423B1	423	24 x 24	1.27mm	-	31 x 31	-
BGA432A1	432	24 x 24	1.27mm	TBGA	31 x 31	1.97
BGA432A2	432	24 x 24	1.27mm	TBGA	31 x 31	1.37
BGA432A3	432	24 x 24	1.27mm	TBGA	31 x 31	1.68
BGA432A4	432	24 x 24	1.27mm	TBGA	31 x 31	1.49
BGA432A5	432	24 x 24	1.27mm	TBGA	31 x 31	2.07
BGA432B1	432	31 x 31	1.27mm	Plastic	40 x 40	1.38
BGA432C1	432	24 x 24	1.27mm	TBGA	35 x 35	2
BGA432C2	432	24 x 24	1.27mm	TBGA	35 x 35	1.55
BGA436A1	436	26 x 26	1.27mm	Plastic	35 x 35	-
BGA441A1	441	21 x 21	1.27mm	-	27 x 27	-
BGA441B1 *	441	23 x 23	1.27mm	-	31 x 31	-
BGA444A1	444	25 x 25	1.27mm	TBGA	33 x 33	3.21
BGA448A1	448	32 x 32	1.27mm	Plastic	42.5 x 42.5	3.64
BGA448A2	448	32 x 32	1.27mm	-	42.5 x 42.5	1.74
BGA452A1	452	26 x 26	1.27mm	Plastic	35 x 35	3.5 max
BGA456A1	456	26 x 26	1.27mm	Plastic	35 x 35	2.33
BGA456A2	456	26 x 26	1.27mm	Plastic	35 x 35	2.71
BGA456B1	456	25 x 25	1.27mm	TBGA	35 x 35	2.49
BGA464A1	464	26 x 26	1.27mm	-	35 x 35	-

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN





### BGA CHIP PACKAGE SPECIFICATIONS

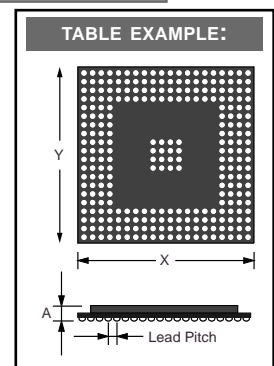
Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA468A1	468	26 x 26	1.27mm	-	35 x 35	-
BGA472A1	472	26 x 26	1.27mm	-	35 x 35	-
BGA472B1	472	22 x 22	1.27mm	-	29 x 29	-
BGA473A1	473	19 x 25	1.27mm	-	25.0 x 32.5	-
BGA474A1 *	474	19 x 25	1.27mm	Ceramic	25.0 x 32.5	4.98
BGA474A2 *	474	19 x 25	1.27mm	Ceramic	25.0 x 32.5	5.73
BGA474A3 *	474	19 x 25	1.27mm	Ceramic	25.0 x 32.5	2.54
BGA475A1	475	19 x 25	1.27mm	-	25.0 x 32.5	3.45
BGA476A1	476	24 x 24	1.27mm	TBGA	31 x 31	1.37
BGA476B1	476	26 x 26	1.27mm	-	35 x 35	-
BGA477A1	477	31 x 31	1.27mm	-	41 x 41	-
BGA479A1	479	29 x 29	1.27mm	Plastic	40 x 40	2.76
BGA479A2	479	29 x 29	1.27mm	Plastic	40 x 40	2.66
BGA479A3	479	29 x 29	1.27mm	Plastic	40 x 40	1.79
BGA479A4	479	29 x 29	1.27mm	Plastic	40 x 40	2.4
BGA480A1	480	26 x 26	1.27mm	TBGA	33 x 33	1.97
BGA480A2	480	26 x 26	1.27mm	TBGA	33 x 33	1.37
BGA480B1	480	29 x 29	1.27mm	TBGA	37.5 x 37.5	1.4
BGA480B2	480	29 x 29	1.27mm	TBGA	37.5 x 37.5	1.55
BGA480C1	480	26 x 26	1.27mm	Plastic	35 x 35	-
BGA480D1	480	29 x 29	1.27mm	-	40 x 40	5.11
BGA480D2	480	29 x 29	1.27mm	-	40 x 40	1.78
BGA480E1	480	34 x 34	1.00mm	-	35 x 35	-
BGA480F1	480	34 x 34	1.27mm	-	45 x 45	-
BGA480G1	480	24 x 24	1.27mm	-	31 x 31	-
BGA484A1	484	29 x 29	1.27mm	Plastic	-	2.13
BGA484B1	484	26 x 26	1.27mm	Plastic	35 x 35	-
BGA484B2	484	26 x 26	1.27mm	Plastic	35 x 35	2.3
BGA484C1	484	22 x 22	1.00mm	-	23 x 23	1.86
BGA484C2	484	22 x 22	1.00mm	-	23 x 23	2.23
BGA492A1	492	26 x 26	1.27mm	-	35 x 35	-
BGA493A1	493	29 x 29	1.27mm	-	37.5 x 37.5	-
BGA496A1	496	28 x 28	1.27mm	-	37.5 x 37.5	-
BGA496B1	496	26 x 26	1.27mm	-	35 x 35	-
BGA500A1	500	30 x 30	1.27mm	-	40 x 40	1.4
BGA503A1	503	29 x 29	1.27mm	Plastic	40 x 40	2.4
BGA503A2	503	29 x 29	1.27mm	Plastic	40 x 40	2.85
BGA503A3	503	29 x 29	1.27mm	Plastic	40 x 40	2.4
BGA503A4	503	29 x 29	1.27mm	Plastic	40 x 40	2.65
BGA503B1 *	503	27 x 27	1.27mm	-	37.5 x 37.5	-
BGA503C1	503	25 x 25	1.27mm	-	33 x 33	-
BGA504A1	504	27 x 27	1.27mm	Ceramic	35 x 35	2.13

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN

## BGA CHIP PACKAGE SPECIFICATIONS

Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA505A1	505	23 x 23	1.27mm	-	31 x 31	-
BGA516A1	516	26 x 26	1.27mm	Ceramic	35 x 35	3.75
BGA520A1	520	31 x 31	1.27mm	-	40 x 40	-
BGA520B1	520	33 x 33	1.27mm	-	43 x 43	-
BGA521A1	521	33 x 33	1.27mm	Ceramic	43 x 43	3.41
BGA525A1 *	525	29 x 29	1.27mm	Plastic	40 x 40	2.14
BGA525A2 *	525	29 x 29	1.27mm	Plastic	40 x 40	1.96
BGA525A3 *	525	29 x 29	1.27mm	Plastic	40 x 40	2.26
BGA529A1	529	23 x 23	1.50mm	-	35 x 35	2.13
BGA529B1	529	29 x 29	1.27mm	-	37.5 x 37.5	-
BGA532A1	532	26 x 26	1.27mm	TBGA	33 x 33	1.37
BGA540A1	540	32 x 32	1.27mm	Plastic	44 x 44	-
BGA540B1	540	32 x 32	1.27mm	-	42.5 x 42.5	-
BGA544A1 *	544	26 x 26	1.27mm	Plastic	35 x 35	2.3
BGA551A1 *	551	29 x 29	1.27mm	-	40 x 40	1.42
BGA552A1	552	29 x 29	1.27mm	TBGA	37.5 x 37.5	2
BGA552A2	552	29 x 29	1.27mm	TBGA	37.5 x 37.5	1.97
BGA553A1	553	29 x 29	1.27mm	-	37.5 x 37.5	-
BGA556A1	556	30 x 30	1.00mm	-	31 x 31	2.18
BGA559A1	559	31 x 31	1.27mm	Plastic	42.5 x 42.5	1.74
BGA560A1	560	33 x 33	1.27mm	Plastic	42.5 x 42.5	1.38
BGA560A2	560	33 x 33	1.27mm	Plastic	42.5 x 42.5	1.54
BGA560B1	560	27 x 27	1.27mm	Ceramic	35 x 35	2.05
BGA560B2	560	27 x 27	1.27mm	Ceramic	35 x 35	2.58
BGA560B3	560	27 x 27	1.27mm	TBGA	35 x 35	1.95
BGA560C1	560	33 x 33	1.00mm	-	35 x 35	-
BGA564A1	564	30 x 30	1.27mm	-	40 x 40	-
BGA565A1 *	565	29 x 29	1.27mm	-	37.5 x 37.5	2.33
BGA567A1	567	24 x 24	1.27mm	-	31 x 31	-
BGA576A1	576	24 x 24	1.27mm	Ceramic	31 x 31	2.25
BGA576A2	576	24 x 24	1.27mm	Plastic	31 x 31	1.23
BGA576B1	576	30 x 30	1.27mm	-	40 x 40	-
BGA576C1	576	29 x 29	1.27mm	-	37.5 x 37.5	-

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN



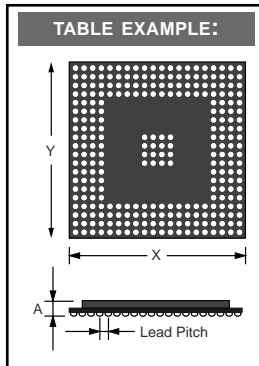


### BGA CHIP PACKAGE SPECIFICATIONS

Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA580A1 *	580	26 x 26	1.27mm	-	35 x 35	1.1
BGA584A1	584	29 x 29	1.27mm	TBGA	37.5 x 37.5	1.97
BGA587A1	587	28 x 28	1.27mm	-	37.5 x 37.5	3.3
BGA596A1	596	30 x 30	1.27mm	-	40 x 40	2.67
BGA596B1	596	26 x 26	1.27mm	-	35 x 35	-
BGA596C1	596	30 x 30	1.27mm	-	40 x 40	2.6
BGA596D1 *	596	35 x 35	1.27mm	-	45 x 45	1.4
BGA599A1 *	599	35 x 35	1.27mm	-	47.5 x 47.5	3.07
BGA600A1	600	35 x 35	1.27mm	-	45 x 45	1.4
BGA600B1	600	35 x 35	1.27mm	-	47.5 x 47.5	3.07
BGA600B2	600	35 x 35	1.27mm	-	47.5 x 47.5	2.5
BGA600C1	600	31 x 31	1.27mm	-	40 x 40	-
BGA608A1	608	30 x 30	1.27mm	Plastic	40 x 40	1.46
BGA615A1	615	31 x 31	1.27mm	-	31 x 35	-
BGA616A1	616	29 x 29	1.27mm	TBGA	37.5 x 37.5	2
BGA624A1	624	25 x 25	1.27mm	Ceramic	32.5 x 32.5	6.8
BGA624A2	624	25 x 25	1.27mm	Ceramic	32.5 x 32.5	4.98
BGA624A3	624	25 x 25	1.27mm	Ceramic	32.5 x 32.5	5.73
BGA624A4	624	25 x 25	1.27mm	Ceramic	32.5 x 32.5	3.43
BGA625A1	625	25 x 25	1.27mm	Ceramic	32.5 x 32.5	-
BGA640A1	640	35 x 35	1.27mm	-	45 x 45	-
BGA648A1	648	33 x 33	1.27mm	-	45 x 45	-
BGA652A1	652	35 x 35	1.27mm	Plastic	45 x 45	1.5
BGA655A1	655	34 x 34	1.27mm	-	45 x 45	-
BGA655B1	655	34 x 34	1.27mm	-	45 x 45	-
BGA664A1	664	26 x 26	1.27mm	-	35 x 35	-
BGA672A1	672	31 x 31	1.27mm	TBGA	40 x 40	1.96
BGA672B1	672	27 x 27	1.00mm	-	27 x 27	1.86
BGA672C1	672	34 x 34	1.27mm	-	45 x 45	-
BGA676A1	676	26 x 26	1.27mm	TBGA	33 x 33	1.55
BGA676B1	676	26 x 26	1.27mm	Plastic	35 x 35	2.33
BGA676C1	676	26 x 26	1.00mm	-	27 x 27	-
BGA680A1	680	39 x 39	1.27mm	-	51 x 51	-
BGA694A1 *	694	32 x 32	1.27mm	-	42 x 42	-
BGA696A1	696	35 x 35	1.27mm	-	47.5 x 47.5	-
BGA696B1	696	38 x 38	1.00mm	-	40 x 40	-
BGA720A1	720	38 x 38	1.00mm	-	40 x 40	-
BGA720B1 *	720	36 x 36	1.27mm	-	47.5 x 47.5	-
BGA729A1	729	27 x 27	1.27mm	Ceramic	35 x 35	2.13
BGA729B1 *	729	27 x 27	0.80mm	-	27 x 27	-
BGA731A1	731	34 x 34	1.27mm	-	45 x 45	-
BGA735A1	735	31 x 31	1.27mm	TBGA	40 x 40	2.12

\* PLEASE CALL IRONWOOD FOR PACKAGE CODE PATTERN

## BGA CHIP PACKAGE SPECIFICATIONS



Ironwood Package Code	Pin Count	Array Size	Lead Pitch	Body Material	Dimensions (mm) X x Y	Thickness (mm) A
BGA736A1	736	31 x 31	1.27mm	TBGA	40 x 40	-
BGA788A1	788	38 x 38	1.00mm	-	40 x 40	-
BGA824A1	824	25 x 33	1.27mm	-	32.5 x 42.5	-
BGA873A1	873	31 x 31	1.27mm	-	-	-
BGA1088A1	1088	33 x 33	1.27mm	-	42.5 x 42.5	-
BGA1089A1	1089	33 x 33	1.27mm	-	42.5 x 42.5	-
BGA1225A1	1225	35 x 35	0.65mm	-	20 x 20	-
BGA1225B1	1225	35 x 35	1.27mm	-	47.5 x 47.5	-
BGA1296A1	1296	36 x 36	1.00mm	-	37.5 x 37.5	-

