

ASAT Thermal Measurement

						THETA JA(°C/W)			
SIZE	LEADS	L/F	PADDLE (*Ball Pitch)	DIE SIZE	Power	LC PCB	HC PCB	request no.	REMARK
EDQUAD PLCC									
9.0MMX3.9	20	CU	180X180	-	-	-	-		-
11.5MMX3.9	28	CU	320X320	200X200	1.0W	39.00	-		WITH CERAMIC
16.6MMX3.9	44	CU	300X300	250X250	1.0W	30.00	-		WITH CERAMIC
24.2MMX3.8	68	CU	325X325	250X250	2.0W	22.00	-		WITH CERAMIC
29.9MMX3.8	84	CU	425X425	400X400	1.5W	16.50	-		WITH CERAMIC

EDQUAD QFP									
10X10X2.0	52	CU	210X210	200X200	1.5W	39.00	-		WITH CERAMIC
14X14X2.0	44	CU	300X300	150X150	1.5W	35.00	-		WITH CERAMIC
14X14X2.7	52	CU	260X260	-	-	-	-		-
14X20X2.0	100	CU	270X270	-	-	-	-		-
	100	CU	360X360	200X200	1.5W	25.00	-		WITH CERAMIC
14X20X2.7	100	CU	320X320	-	-	-	-		-
	100	CU	400X400	250X250	1.5W	27.00	-		WITH CERAMIC
28X28X3.5	120	CU	630X630	-	-	-	-		-
	160	CU	630X630	-	-	-	-		-
	208	CU	620X620	400X400	1.5W	11.00	-		EXT HEATSINK
32X32X3.5	208	CU	620X620	400X400	-	16.80	-		WITH CERAMIC
	240	CU	580X760	400X400	2.0W	17.44	16.26		HEATSINK A+B
32X32X3.5	240	CU	630X630	400X400	1.5W	16.10	-		WITH CERAMIC
	304	CU	630X630	-	-	-	-		-

EDQUAD SOIC									
3.9X4.9X1.4	8	CU	-	-	-	-	-		-
3.9X9.9X1.4	16	CU	90X180	50X50	1.5W	99.60	59.70	TR97003	WITH IR
	16	CU	90X180	50X50	1.0W	98.20	60.10	TR97004	FULL PAD

EDQUAD SSOP									
3.9X4.9X1.4	16	CU	90X130	50X50	0.75W	-	78.90		FULL PAD
5.3X10.3X1.8	28	CU	90X180	50X50	1.0W	109.40	66.00	TR97008	FULL PAD

EDQUAD TQFP									
7X7X1.4	16	CU	200X200	50X50	1.25W	81.60	58.70		WITH IR
	32	CU	200X200	50X50	0.75W	79.74	-		W/ IR DIE UP
	32	CU	180X180	50X50	1.0W	82.50	-		FULL PAD
	32	CU	200X200	150X150	1.0W	-	35.91		FULL PAD
	48	CU	200X200	150X150	1.0W	70.00	-		-
10X10X1.4	64	CU	300X300	-	-	-	-		-
14X14X1.4	52	CU	270X270	200x200	1.0W	-	-		-
	52	CU	270X270	200x200	1.0W	-	28.9 (S)		WITH CERAMIC
	52	CU	270X270	200x200	1.0W	-	31.0 (S)		W/O CERAMIC
	120	CU	320X320	250X250	1.5W	33.00	-		WITH CERAMIC
	120	CU	370X370	-	-	-	-		W/O CERAMIC

ASAT Thermal Measurement

						THETA JA(°C/W)			
SIZE	LEADS	L/F	PADDLE (*Ball Pitch)	DIE SIZE	Power	LC PCB	HC PCB	request no.	REMARK
20X20X1.4	144	CU	310X310	300X300	1.5W	24.00	-		WITH CERAMIC
24X24X1.4	176	CU	620X620	300X300	1.5W	22.00	-		WITH CERAMIC

fpBGA									
5x5x1.4	24		0.8MM*	80x80	0.5W	77.6 (S)	-	-	-
6X6X1.4	36		0.8MM*	100X100	0.75W	63.52	-	TR97035	-
8X8X1.4	64		0.8MM*	-	-	-	-	-	-
9X9X1.4	64		1.0MM*	200X200	0.75W	51.00	-	TR97033	-
	64		1.0MM*	200X200	0.75W	47.30	-		VIA ON PAD
10X10X1.4	100		0.8MM*	200X200	1.0W	52.50	-		-
	144		0.8MM*	200x200	1.0W	50.90	-		-
13X13X1.4	144		1.0MM*	300X300	0.5W	38.80	-		-

PBGA									
14X20X2.06	119		1.27MM*	150X150	1.0W	63.50	-		WITHOUT SM
27X27X2.32	225		1.27MM*	400x400	2.0W	38.40	-		WITHOUT SM
	256		1.27MM*	400X400	2.0W	33.20	-		WITH SM
	256		1.27MM*	400X400	2.0W	32.20	26.00		WITHOUT SM
	272		1.27MM*	400x400	2.0W	31.00	22.00		16 THERMAL BALLS
35X35X2.32	313		1.27MM*	525X525	2.0W	28.70	-		WITHOUT SM
	352		1.27MM*	400x400	2.0W	27.50	23.50		WITHOUT SM

TBGA									
21X21X1.6	156		1.27MM*	-	-	-	-		-
23X23X1.6	208		1.27MM*	205x205	2.0W	-	18.90		ACTIVE DIE
25X25X1.6	320		1.27MM*	350x350	3.0W	21.2 (S)	-		-
27X27X1.6	256		1.27MM*	400X400	3.0W	21.00	15.00		-
31X31X1.6	304		1.27MM*	400X400	3.0W	17.50	13.00		-
35X35X1.6	352		1.27MM*	400X400	3.0W	15.50	11.00		-
35X35X1.6	352		1.27MM*	400X400	3.0W	10.56	8.70		EXT FIN H/S 37.5X37.5
35X35X1.6	420		1.27MM*	400X400	3.0W	-	10.90		-
37.5x37.5x1.6	480		1.27MM*	400X400	3.0W	-	10.40	TR97001	-
40X40X1.6	432		1.27MM*	400X400	3.0W	-	10.10		-
	600		1.27MM*	-	-	-	-		-

PLCC									
9.0MMX3.9	20	CU	180X180	150X150	-	-	-		-
11.5MMX3.9	28	CU	200X200	150X150	1.0W	55.00	-		-
	28	CU	265X265	200X200	1.0W	51.00	-		-
11.5X14.0X2.7	32	CU	280X280	250X250	1.0W	45.50	-		-
16.6MMX3.9	44	CU	230X230	150X150	1.0W	50.00	-		-
	44	CU	300X300	250X250	-	43.00	-		-
19.2MMX3.9	52	CU	-	-	-	-	-		-
24.2MMX3.8	68	CU	325X325	300X300	1.0W	35.00	-		-
	68	CU	325X325	250X250	1.0W	36.00	-		-
29.3MMX3.8	84	CU	425X425	300X300	1.0W	32.00	-		-
	84	CU	360X360	250X250	1.0W	32.00	-		-
	84	CU	425X425	400X400	1.0W	31.00	-		-

SOIC									
3.9X4.9X1.4	8	CU	90X130	50X50	0.5W	135.00	-		-
7.5X9.0X2.3	14	CU	150X150	75X75	0.75W	77.00	-		-
7.5X10.3X2.3	16	CU	140X170	75X75	0.75W	69.00	-		-
	18	CU	170X210	75X75	0.75W	65.00	-		-
7.5X12.8X2.3	20	CU	110X140	75X75	0.75W	65.00	-		-
7.5X15.4X2.3	24	CU	180X220	75X75	0.75W	61.00	-		-

ASAT Thermal Measurement

SIZE	LEADS	L/F	PADDLE (*Ball Pitch)	DIE SIZE	Power	THETA JA(°C/W)			
						LC PCB	HC PCB	request no.	REMARK
7.5X17.9X2.3	28	CU	170X300	75X75	1.0W	54.00	-		-

TQFP									
5X5X1.4	32L	CU	150X150	100X100	0.5W	150.4 (S)	94.6 (S)		EPP W/O POB
5X5X1.4	32L	CU	150X150	50x50	0.75W	-	72.20		-
7X7X1.0	48	CU	200X200	-	-	-	-		-
7X7X1.4	32	CU	180X180	50x50	0.75W	92.44	-		DIE UP
	48	CU	180X180	75X75	0.75W	80.00	-		-
10X10X1.4	48	CU	200X200	150X150	0.75W	72.00	-		-
	44	CU	200X200	-	-	-	-		-
	44	CU	252X252	221X198	1.0W	-	37.40		ACTIVE DIE
14X14X1.0	120	CU	320X320	200X200	1.0W	52.00	-	TR97014	-
14X14X1.4	64	CU	220X220	100X100	0.75W	65.00	-		-
	100	CU	360X360	200X200	1.0W	50.00	-		-
	120	CU	320X320	250X250	1.0W	43.00	-		-
	128	CU	320X320	250X250	-	-	-		-
14X20X1.4	100	CU	315X315	250X250	-	-	-		-
	128	CU	315X315	300X300	1.0W	44.60	31.30	TR97040	-
	128	CU	380X380	250X250	1.0W	38.70	25.40	TR97017	-
20X20X1.4	144	CU	310X310	250X250	1.0W	41.00	-		-
24X24X1.4	176	CU	270X270	200X200	1.0W	44.50	32.70	TR97038	-

SSOP									
4.3X3.9X1.4	16	CU	90X130	50X50	1.3W	164.70	101.70		-
	16	CU	90X130	50X50	1.0W	154.80	93.80		EPP W/O POD
3.9X9.9X1.4	28	CU	90X180	50X50	1.0W	92.70	48.30		-

TSOP									
6X14.4X1.0	24	A42	180X400	150X375	0.5W	109.00	-		-
8X18.4X1.0	32	A42	240X240	225X375	0.75W	99.00	-		-

PQFP									
10X10X2.0	44	A42	252X252	150X150	1.0W	105.00	-		-
	44	CU	200X200	-	-	-	-		-
	52	A42	280X280	150X150	1.0W	102.00	-		-
	52	CU	210X210	200X200	1.0W	50.00	-		-
14X14X2.0	44	A42	300X300	225X225	1.5W	94.00	-		-
	44	CU	300X300	150X150	1.5W	57.00	-		-
	52	A42	300X300	225X225	1.5W	87.00	-		-
	52	CU	260X260	-	-	-	-		-
	64	A42	300X300	225X225	1.5W	85.00	-		-
	64	CU	210X210	100X100	2.0W	56.20	45.30		-
	64	CU	210X210	100X100	1.0W	58.70	47.50		-
	64	CU	210X210	100X100	1.0W	60.20	48.70		CUSTOMER L/F
	80	A42	320X320	300X300	1.5W	77.00	-		-
	80	CU	320X320	200X200	1.5W	44.50	-		-
14X20X2.0	100	A42	360X360	300X300	1.5W	80.00	-		-
	100	CU	320X320	200X200	1.5W	51.90	-		-
	64	A42	320X320	225X225	1.5W	83.00	-		-
	64	CU	320X320	250X250	2.0W	46.20	37.80	TR97012	-
14X20X2.7	100	A42	360X360	300X300	1.5W	80.00	-		-
	100	CU	260X260	200X200	1.5W	42.00	-		-
	100	A42	400X400	300X300	1.5W	78.00	-		-
28X28X3.5	100	CU	400X400	250X250	1.5W	46.00	-		-
	120	A42	400X400	375X375	1.5W	51.00	-		-
	120	CU	370X370	250X250	1.5W	36.00	-		-
	128	A42	370X370	300X300	1.5W	56.00	-		-

ASAT Thermal Measurement

						THETA JA(°C/W)			
SIZE	LEADS	L/F	PADDLE (*Ball Pitch)	DIE SIZE	Power	LC PCB	HC PCB	request no.	REMARK
	128	CU	370X370	-	-	-	-		-
	144	A42	400X400	375X375	1.5W	50.00	-		-
	144	CU	400X400	250X250	1.5W	34.00	-		-
	160	A42	430X430	375X375	1.5W	52.00	-		-
	160	CU	430X430	375X375	1.5W	36.00	-		-
	208	A42	620X620	375X375	1.5W	49.00	-		-
	208	CU	520X520	400X400	1.5W	31.00	-		-
	208	CU	620X620	400X400	1.5W	30.00	-		-
32X32X3.5	240	CU	620X620	375X375	1.5W	26.00	-		-
40X40X3.5	304	CU	620X620	-	-	-	-		-

IR-QFP									
32X32X3.5	240	CU	710X680	400X400	2.0W	28.50	24.10	TR97029	WITH IR (520X490)

PLCC INT TEP									
29.3MMX3.8	84	CU	-	300X300	1.0W	23.09	20.70		-

QFP INT TEP									
10X10X2.0	64	CU	210X210	100X100	2.0W	60.80	-		-
14X14X2.0	64	CU	210X210	100X100	2.3W	38.50	-		-
28X28X3.5	208	CU	430X430	400X400	2.0W	22.50	-		-
32X32X3.5	240	CU	590X730	400X400	2.0W	17.10	14.30	TR97030	DIE DOWN

QFP HEAT SLUG									
14X20X2.7	80	CU	-	185X200	1.5W	-	23.30		-
14X20X2.7	100	CU	-	250X250	2.0W	-	20.60		CERAMIC TAPED
	100	CU	358X358	250X250	1.5W	36.80	26.70		-

LPCC									
9X9X1.2	32	CU	260X260	150X150	1.0W	73.50	-		SOB

NOTES:									
IR = Interposer Ring					LC = Low Conductivity				
SM = Solder Mask					HC = High Conductivity				
(S) = Simulation Data									
POD = Pad-On-Board					New Data				