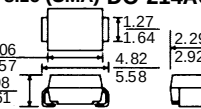
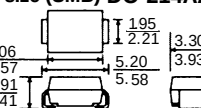
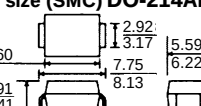
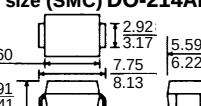
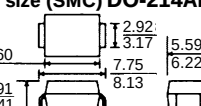
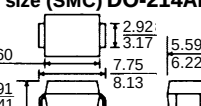
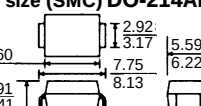


SURFACE MOUNT

Transient Voltage Suppressor

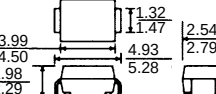
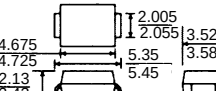
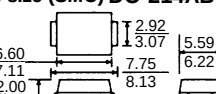
TRANSIENT VOLTAGE SUPPRESSOR DIODE

Operating Temperature: -55°C to 150°C

RF Part Number	Working Peak Reverse Voltage V_{RWM} (V)	Break Down Voltage			Maximum Clamping Voltage V_{RSM} (V)	Maximum Reverse Current & Leakage									Outline (Dimensions in mm)	
		V_{BR} (V)	@ IT (mA)	*A Size			*B Size			*C Size						
				Current I_{PPM} (A)		Leakage at V_{NWM} I_R (μA)	Device Marking Code	Current I_{PPM} (A)	Leakage at V_{NWM} I_R (μA)	Device Marking Code	Current I_{PPM} (A)	Leakage at V_{NWM} I_R (μA)	Device Marking Code			
														Min		
SM*J5.0	5	6.4	7.3	10	9.6	32	800	AD	62.5	800	KD	164	1000	GDD	A size (SMA) DO-214AC  PART NUMBER EXAMPLE SMAJ7.0A	
SM*J5.0A	5	6.4	7	10	9.2	34	800	AE	65.2	800	KE	171	1000	GDE		
SM*J6.0	6	6.7	8.2	10	11.4	27.6	800	AF	52.6	800	KF	138	1000	GDF		
SM*J6.0A	6	6.7	7.4	10	10.3	30.5	800	AG	58.3	800	KG	152	1000	GDG		
SM*J6.5	6.5	7.2	8.8	10	12.3	25.6	500	AH	48.7	500	KH	128	500	GDH		
SM*J6.5A	6.5	7.2	8	10	11.2	28	500	AK	53.6	500	KK	140	500	GDK		
SM*J7.0	7	7.8	9.5	10	13.3	23.6	200	AL	45.1	200	KL	116	200	GDL		
SM*J7.0A	7	7.8	8.6	10	12	26	200	AM	50	200	KM	131	200	GDM		
SM*J7.5	7.5	8.3	10.3	1	14.3	22	100	AN	42	100	KN	110	100	GDN		
SM*J7.5A	7.5	8.3	9.2	1	12.9	24.4	100	AP	46.5	100	KP	122	100	GDP		
SM*J8.0	8	8.9	10.9	1	15	21	50	AQ	40	50	KQ	105	50	GDQ	B size (SMB) DO-214AA  PART NUMBER EXAMPLE SMBJ7.0A	
SM*J8.0A	8	8.9	9.8	1	13.6	23	50	AR	44.1	50	KR	115	50	GDR		
SM*J8.5	8.5	9.4	11.5	1	15.9	19.8	10	AS	37.7	20	KS	99	25	GDS		
SM*J8.5A	8.5	9.4	10.4	1	14.4	21.8	10	AT	41.7	20	KT	109	20	GDT		
SM*J9.0	9	10	12.2	1	16.9	18.6	5	AU	35.5	10	KU	93	10	GDU		
SM*J9.0A	9	10	11.1	1	15.4	20.4	5	AV	39	10	KV	102	10	GDV		
SM*J10	10	11.1	13.6	1	18.8	16.7	5	AW	31.9	5	KW	83	5	GDW		
SM*J10A	10	11.1	12.3	1	17	18.5	5	AX	35.3	5	KX	92	5	GDX		
SM*J11	11	12.2	14.9	1	20.1	15.6	5	AY	29.9	5	KY	78	5	GDY		
SM*J11A	11	12.2	13.5	1	18.2	17.3	5	AZ	33	5	KZ	86	5	GDZ		
SM*J12	12	13.3	16.3	1	22	14.3	5	BD	27.3	5	LD	71	5	GED	C size (SMC) DO-214AB  PART NUMBER EXAMPLE SMCJ7.0A	
SM*J12A	12	13.3	14.7	1	19.9	15.8	5	BE	30.2	5	LE	79	5	GEE		
SM*J13	13	14.4	17.6	1	23.8	13	5	BF	25	5	LF	66	5	GEF		
SM*J13A	13	14.4	15.9	1	21.5	14.6	5	BG	27.9	5	LG	73	5	GEG		
SM*J14	14	15.6	19.1	1	25.8	12.2	5	BH	23.3	5	LH	61	5	GEH		
SM*J14A	14	15.6	17.2	1	23.2	13.5	5	BK	25.8	5	LK	67	5	GEK		
SM*J15	15	16.7	20.4	1	26.9	11.7	5	BL	22.3	5	LL	58	5	GEL		
SM*J15A	15	16.7	18.5	1	24.4	12.9	5	BM	24	5	LM	64	5	GEM		
SM*J16	16	17.8	21.8	1	28.8	10.9	5	BN	20.8	5	LN	54	5	GEN		
SM*J16A	16	17.8	19.7	1	26	12	5	BP	16.7	5	LP	60	5	GEP		
SM*J17	17	18.9	23.1	1	30.5	10.3	5	BQ	18.5	5	LQ	51	5	GEQ	C size (SMC) DO-214AB  PART NUMBER EXAMPLE SMCJ7.0A	
SM*J17A	17	18.9	20.9	1	27.6	11.4	5	BR	15.2	5	LR	57	5	GER		
SM*J18	18	20	24.4	1	32.2	9.7	5	BS	16.9	5	LS	48	5	GES		
SM*J18A	18	20	22.1	1	29.2	10.7	5	BT	14	5	LT	53	5	GET		
SM*J20	20	22.2	27.1	1	35.8	8.7	5	BU	15.4	5	LU	43	5	GEU		
SM*J20A	20	22.2	24.5	1	32.4	9.7	5	BV	12.4	5	LV	48	5	GEV		
SM*J22	22	24.4	29.8	1	39.4	8	5	BW	12	5	LW	39	5	GEW		
SM*J22A	22	24.4	26.9	1	35.5	8.8	5	BX	13.2	5	LX	44	5	GEX		
SM*J24	24	26.7	32.6	1	43	7.3	5	BY	11.2	5	LY	36	5	GEY		
SM*J24A	24	26.7	29.5	1	38.9	8	5	BZ	12.4	5	LZ	40	5	GEZ		
SM*J26	26	28.9	35.3	1	46.6	6.7	5	CD	10.2	5	MD	33	5	GGD	C size (SMC) DO-214AB  PART NUMBER EXAMPLE SMCJ7.0A	
SM*J26A	26	28.9	31.9	1	42.1	7.4	5	CE	11.3	5	ME	37	5	GGE		
SM*J28	28	31.1	38	1	50	6.3	5	CF	9.3	5	MF	31	5	GGF		
SM*J28A	28	31.1	34.4	1	45.4	6.9	5	CG	10.3	5	MG	34	5	GGG		
SM*J30	30	33.3	40.7	1	53.5	5.8	5	CH	8.4	5	MH	29	5	GGH		
SM*J30A	30	33.3	36.8	1	48.4	6.5	5	CK	9.3	5	MK	32	5	GGK		
SM*J33	33	36.7	44.9	1	59	5.3	5	CL	7.8	5	ML	26	5	GGL		
SM*J33A	33	36.7	40.6	1	53.3	5.9	5	CM	8.6	5	MM	29	5	GGM		
SM*J36	36	40	48.9	1	64.3	4.8	5	CN	7.5	5	MN	24	5	GGN		
SM*J36A	36	40	44.2	1	58.1	5.4	5	CP	8.3	5	MP	27	5	GGP		
SM*J40	40	44.4	54.3	1	71.4	4.4	5	CQ	7	5	MQ	22	5	GGQ	C size (SMC) DO-214AB  PART NUMBER EXAMPLE SMCJ7.0A	
SM*J40A	40	44.4	49.1	1	64.5	4.8	5	CR	7.7	5	MR	24	5	GGR		
SM*J43	43	47.8	58.4	1	76.7	4.1	5	CS	6.6	5	MS	20	5	GGS		
SM*J43A	43	47.8	52.8	1	69.4	4.5	5	CT	7.3	5	MT	22	5	GGT		
SM*J45	45	50	61.1	1	80.3	3.9	5	CU	6.2	5	MU	9	5	GGU		
SM*J45A	45	50	55.3	1	72.7	4.3	5	CV	6.9	5	MV	21	5	GGV		
SM*J48	48	53.3	65.1	1	85.5	3.6	5	CW	5.8	5	MW	18	5	GGW		
SM*J48A	48	53.3	58.9	1	77.4	4	5	CX	6.4	5	MX	20	5	GGX		
SM*J51	51	56.7	69.3	1	91.1	3.4	5	CY	5.6	5	MY	17	5	GGY		
SM*J51A	51	56.7	62.7	1	82.4	3.8	5	CZ	6.2	5	MZ	19	5	GGZ		
SM*J54	54	60	73.3	1	96.3	3.2	5	RD	5.3	5	ND	16	5	GHD	C size (SMC) DO-214AB  PART NUMBER EXAMPLE SMCJ7.0A	
SM*J54A	54	60	66	1	87.1	3.6	5	RE	5.8	5	NE	18	5	GHE		
SM*J58	58	64.4	78.7	1	103	3	5	RF	4.8	5	NF	15	5	GHF		
SM*J58A	58	64.4	71.2	1	93.6	3.3	5	RG	5.3	5	NG	16	5	GHG		

TRANSIENT VOLTAGE SUPPRESSOR DIODE

Operating Temperature: -55°C to 150°C

RF Part Number	Working Peak Reverse Voltage V_{RWM} (V)	Break Down Voltage		@ IT V_{RSM} (V)	Maximum Clamping Voltage V_{RSM} (V)	Maximum Reverse Current & Leakage									Outline (Dimensions in mm)	
		V_{BR} (V)				*A Size			*B Size			*C Size				
		Min	Max			Current I_{PPM} (A)	Leakage at V_{NWM} I_R (μA)	Device Marking Code	Current I_{PPM} (A)	Leakage at V_{NWM} I_R (μA)	Device Marking Code	Current I_{PPM} (A)	Leakage at V_{NWM} I_R (μA)	Device Marking Code		
SM*J60	60	67	82	1	107	2.9	5	RH	4.5	5	NH	14	5	GGH	A size (SMA) DO-214AC 	
SM*J60A	60	67	74	1	96.8	3.2	5	RK	4.9	5	NK	16	5	GGK		
SM*J64	64	71	87	1	114	2.7	5	RL	4.3	5	NL	13.8	5	GGL		
SM*J64A	64	71	79	1	103	3	5	RM	4.7	5	NM	15	5	GGM		
SM*J70	70	78	95	1	125	2.5	5	RN	3.9	5	NN	12.6	5	GGN	PART NUMBER EXAMPLE SMAJ7.0A	
SM*J70A	70	78	86	1	113	2.7	5	RP	4.4	5	NP	13.9	5	GGP		
SM*J75	75	83	102	1	134	2.3	5	RQ	3.8	5	NQ	11.7	5	GGQ		
SM*J75A	75	83	92	1	121	2.6	5	RR	4.1	5	NR	13	5	GGR		
SM*J78	78	87	106	1	139	2.2	5	RS	3.4	5	NS	11.3	5	GGS	B size (SMB) DO-214AA 	
SM*J78A	78	87	96	1	126	2.5	5	RT	3.7	5	NT	12.5	5	GGT		
SM*J85	85	94	115	1	151	2	5	RU	3.9	5	NU	10.4	5	GGU		
SM*J85A	85	94	104	1	137	2.2	5	RV	4.4	5	NV	11.5	5	GGV		
SM*J90	90	100	122	1	160	1.9	5	RW	3.8	5	NW	9.8	5	GGW	PART NUMBER EXAMPLE SMBJ7.0A	
SM*J90A	90	100	111	1	146	2.1	5	RX	4.1	5	NX	10.7	5	GGX		
SM*J100	100	111	136	1	179	1.7	5	RY	3.4	5	NY	8.8	5	GGY		
SM*J100A	100	111	123	1	162	1.9	5	RZ	3.7	5	NZ	9.7	5	GGZ		
SM*J110	110	122	149	1	196	1.6	5	SD	3	5	PD	8	5	GHD	C size (SMC) DO-214AB 	
SM*J110A	110	122	135	1	177	1.7	5	SE	3.4	5	PE	8.9	5	GHE		
SM*J120	120	133	163	1	214	1.4	5	SF	2.8	5	PF	7.3	5	GHF		
SM*J120A	120	133	147	1	193	1.6	5	SG	3.1	5	PG	8.1	5	GHG		
SM*J130	130	144	176	1	231	1.3	5	SH	2.6	5	PH	6.8	5	GHH	PART NUMBER EXAMPLE SMCJ7.0A	
SM*J130A	130	144	159	1	209	1.5	5	SK	2.9	5	PK	7.5	5	GHK		
SM*J150	150	167	204	1	268	1.1	5	SL	2.2	5	PL	5.8	5	GHL		
SM*J150A	150	167	185	1	243	1.3	5	SM	2.5	5	PM	6.4	5	GHM		
SM*J160	160	178	218	1	287	1	5	SN	2.1	5	PN	5.4	5	GHN		
SM*J160A	160	178	197	1	259	1.2	5	SP	2.3	5	PP	6	5	GHP		
SM*J170	170	189	231	1	304	1	5	SQ	2	5	PQ	5.1	5	GHQ		
SM*J170A	170	189	209	1	275	1.1	5	SQ	2.2	5	PQ	5.7	5	GHQ		

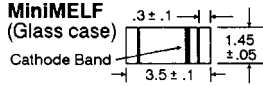
ZENER DIODE

Operating Temperature: -65°C to 150°C

RFE Part Number	Cross-Reference	Marking Code	Nominal Zener Voltage $@I_{ZR}$	Dynamic Impedance $@I_{ZT}$	Test Current	Dynamic Impedance $@I_{ZK}$	Test Current	Max Rev Leakage Current $@V_R$	Test Voltage	Package	Outline (Dimensions in mm)
			V_Z (V)	Z_{ZT} (Ω)	I_{ZT} (mA)	Z_{ZK} (Ω)	I_{ZK} (mA)	I_R (μA)	V_R (V)	Reel	
MMBZ5226B	BZX84C3V3	8A	3.3	28	20.0	1600	0.25	25.0	1.0	3000	SOT-23 (L) TO-236AB
MMBZ5227B	BZX84C3V6	8B	3.6	24	20.0	1700	0.25	15.0	1.0	3000	
MMBZ5228B	BZX84C3V9	8C	3.9	23	20.0	1900	0.25	10.0	1.0	3000	
MMBZ5229B	BZX84C4V3	8D	4.3	22	20.0	2000	0.25	5.0	1.0	3000	
MMBZ5230B	BZX84C4V7	8E	4.7	19	20.0	1900	0.25	5.0	2.0	3000	
MMBZ5231B	BZX84C5V1	8F	5.1	17	20.0	1600	0.25	5.0	2.0	3000	
MMBZ5232B	BZX84C5V6	8G	5.6	11	20.0	1600	0.25	5.0	3.0	3000	
MMBZ5233B		8H	6.0	7	20.0	1600	0.25	5.0	3.5	3000	
MMBZ5234B	BZX84C6V2	8J	6.2	7	20.0	1000	0.25	5.0	4.0	3000	
MMBZ5235B	BZX84C6V8	8K	6.8	5	20.0	750	0.25	3.0	5.0	3000	
MMBZ5236B	BZX84C7V5	8L	7.5	6	20.0	500	0.25	3.0	6.0	3000	
MMBZ5237B	BZX84C8V2	8M	8.2	8	20.0	500	0.25	3.0	6.5	3000	
MMBZ5238B		8N	8.7	8	20.0	600	0.25	3.0	6.5	3000	
MMBZ5239B	BZX84C9V1	8P	9.1	10	20.0	600	0.25	3.0	7.0	3000	
MMBZ5240B	BZX84C10	8Q	10.0	17	20.0	600	0.25	3.0	8.0	3000	
MMBZ5241B	BZX84C11	8R	11.0	22	20.0	600	0.25	2.0	8.4	3000	
MMBZ5242B	BZX84C12	8S	12.0	30	20.0	600	0.25	1.0	9.1	3000	
MMBZ5243B	BZX84C13	8T	13.0	13	9.5	600	0.25	0.5	9.9	3000	
MMBZ5244B		8U	14.0	15	9.0	600	0.25	0.1	10.0	3000	
MMBZ5245B	BZX84C15	8V	15.0	16	8.5	600	0.25	0.1	11.0	3000	
MMBZ5246B	BZX84C16	8W	16.0	17	7.8	600	0.25	0.1	12.0	3000	
MMBZ5247B		8X	17.0	19	7.4	600	0.25	0.1	13.0	3000	
MMBZ5248B	BZX84C18	8Y	18.0	21	7.0	600	0.25	0.1	14.0	3000	
MMBZ5249B		8Z	19.0	23	6.6	600	0.25	0.1	14.0	3000	
MMBZ5250B	BZX84C20	81A	20.0	25	6.2	600	0.25	0.1	15.0	3000	
MMBZ5251B	BZX84C22	81B	22.0	29	5.6	600	0.25	0.1	17.0	3000	
MMBZ5252B	BZX84C24	81C	24.0	33	5.2	600	0.25	0.1	18.0	3000	
MMBZ5253B		81D	25.0	35	5.0	600	0.25	0.1	19.0	3000	
MMBZ5254B	BZX84C27	81E	27.0	41	4.6	600	0.25	0.1	21.0	3000	
MMBZ5255B		81F	28.0	44	4.5	600	0.25	0.1	21.0	3000	
MMBZ5256B	BZX84C30	81G	30.0	49	4.2	600	0.25	0.1	23.0	3000	
MMBZ5257B	BZX84C33	81H	33.0	58	3.8	700	0.25	0.1	25.0	3000	

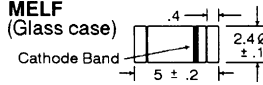
ZENER DIODE

Operating Temperature: -65°C to 150°C

RFE Part Number	Cross-Reference	Nominal Zener Voltage @I _{ZT}	Test Current	Dynamic Impedance @I _{ZT}	Dynamic Impedance @I _{ZK}	Typical Zener Coefficient	Max Rev Leakage Current @ V _R	Test Voltage	Max Regulator Current	Package	Outline (Dimensions in mm)
		V _Z (V)	I _{ZT} (mA)	Z _{ZT} (Ω)	Z _{ZK} (Ω)	α _{VZ} (%/K)	I _R (μA)	V _R (V)	I _S (mA)	Reel	
LL5226B		3.3	20	28	1600	-0.070	25.0	1.0	138.0	2500	
LL5227B		3.6	20	24	1700	-0.065	15.0	1.0	126.0	2500	
LL5228B		3.9	20	23	1900	-0.060	10.0	1.0	115.0	2500	
LL5229B		4.3	20	22	2000	-0.055	5.0	1.0	106.0	2500	
LL5230B		4.7	20	19	1900	-0.030	5.0	2.0	97.0	2500	
LL5231B		5.1	20	17	1600	0.030	5.0	2.0	89.0	2500	
LL5232B		5.6	20	11	1600	0.038	5.0	3.0	81.0	2500	
LL5233B		6.0	20	7	1600	0.038	5.0	3.5	76.0	2500	
LL5234B		6.2	20	7	1000	0.045	5.0	4.0	73.0	2500	
LL5235B		6.8	20	5	750	0.050	3.0	5.0	67.0	2500	
LL5236B		7.5	20	6	500	0.058	3.0	6.0	61.0	2500	
LL5237B		8.2	20	8	500	0.062	3.0	6.5	55.0	2500	
LL5238B		8.7	20	8	600	0.065	3.0	6.5	52.0	2500	
LL5239B		9.1	20	10	600	0.068	3.0	7.0	50.0	2500	
LL5240B		10.0	20	17	600	0.075	3.0	8.0	45.0	2500	
LL5241B		11.0	20	22	600	0.076	2.0	8.4	41.0	2500	
LL5242B		12.0	20	30	600	0.077	1.0	9.1	38.0	2500	
LL5243B		13.0	9.5	13	600	0.079	0.5	9.9	35.0	2500	
LL5244B		14.0	9	15	600	0.082	0.1	10.0	32.0	2500	
LL5245B		15.0	8.5	16	600	0.082	0.1	11.0	30.0	2500	
LL5246B		16.0	7.8	17	600	0.083	0.1	12.0	28.0	2500	
LL5247B		17.0	7.4	19	600	0.084	0.1	13.0	27.0	2500	
LL5248B		18.0	7	21	600	0.085	0.1	14.0	25.0	2500	
LL5249B		19.0	6.6	23	600	0.085	0.1	14.0	24.0	2500	
LL5250B		20.0	6.2	25	600	0.086	0.1	15.0	23.0	2500	
LL5251B		22.0	5.6	29	600	0.087	0.1	17.0	21.2	2500	
LL5252B		24.0	5.2	33	600	0.088	0.1	18.0	19.1	2500	
LL5253B		25.0	5	35	600	0.089	0.1	19.0	18.2	2500	
LL5254B		27.0	4.6	41	600	0.090	0.1	21.0	16.8	2500	
LL5255B		28.0	4.5	44	600	0.091	0.1	21.0	16.2	2500	
LL5256B		30.0	4.2	49	600	0.091	0.1	23.0	15.1	2500	
LL5257B		33.0	3.8	58	700	0.092	0.1	25.0	13.8	2500	
LL5258B		36.0	3.4	70	700	0.093	0.1	27.0	12.6	2500	
LL5259B		39.0	3.2	80	800	0.094	0.1	30.0	11.5	2500	
LL5260B		43.0	3	93	900	0.095	0.1	33.0	10.6	2500	
LL5261B		47.0	2.7	150	1000	0.095	0.1	36.0	9.7	2500	
LL5262B		51.0	2.5	125	1100	0.095	0.1	39.0	8.9	2500	

ZENER DIODE

Operating Temperature: -65°C to 150°C

RFE Part Number	Cross-Reference	Nominal Zener Voltage @I _{ZT}	Test Current	Dynamic Impedance @I _{ZT}	Dynamic Impedance @I _{ZK}	Test Current	Max Rev Leakage Current @ V _R	Test Voltage	Max Regulator Current	Max Regulator Current @ 50°C	Package	Outline (Dimensions in mm)
		V _Z (V)	I _{ZT} (mA)	Z _{ZT} (Ω)	Z _{ZK} (Ω)	I _{ZK} (mA)	I _R (μA)	V _R (V)	I _S (mA)	I _{RM} (mA)	Reel	
LL4729A		3.6	69.0	10.0	400	1.00	100	1.0	1260	252	5000	
LL4730A		3.9	64.0	9.0	400	1.00	50	1.0	1170	234	5000	
LL4731A		4.3	58.0	9.0	400	1.00	10	1.0	1085	217	5000	
LL4732A		4.7	53.0	8.0	500	1.00	10	1.0	965	193	5000	
LL4733A		5.1	49.0	7.0	550	1.00	10	1.0	890	176	5000	
LL4734A		5.6	45.0	5.0	600	1.00	10	2.0	810	162	5000	
LL4735A		6.2	41.0	2.0	700	1.00	10	3.0	730	146	5000	
LL4736A		6.8	37.0	3.5	700	1.00	10	4.0	660	133	5000	
LL4737A		7.5	34.0	4.0	700	0.50	10	5.0	605	121	5000	
LL4738A		8.2	31.0	4.5	700	0.50	10	6.0	550	110	5000	
LL4739A		9.1	28.0	5.0	700	0.50	10	7.0	500	100	5000	
LL4740A		10.0	25.0	7.0	700	0.25	10	7.6	454	91	5000	
LL4741A		11.0	23.0	8.0	700	0.25	5	8.4	414	83	5000	
LL4742A		12.0	21.0	9.0	700	0.25	5	9.1	380	76	5000	
LL4743A		13.0	19.0	10.0	700	0.25	5	9.9	344	69	5000	
LL4744A		15.0	17.0	14.0	700	0.25	5	11.4	304	61	5000	
LL4745A		16.0	15.5	16.0	700	0.25	5	12.2	285	57	5000	
LL4746A		18.0	14.0	20.0	750	0.25	5	13.7	250	50	5000	
LL4747A		20.0	12.5	22.0	750	0.25	5	15.2	225	45	5000	
LL4748A		22.0	11.5	23.0	750	0.25	5	16.7	205	41	5000	
LL4749A		24.0	10.5	25.0	750	0.25	5	18.2	190	38	5000	
LL4750A		27.0	9.5	35.0	750	0.25	5	20.6	170	34	5000	
LL4751A		30.0	8.5	40.0	1000	0.25	5	22.8	150	30	5000	
LL4752A		33.0	7.5	45.0	1000	0.25	5	25.1	135	27	5000	
LL4753A		36.0	7.0	50.0	1000	0.25	5	27.4	125	25	5000	
LL4754A		39.0	6.5	60.0	1000	0.25	5	29.7	115	23	5000	
LL4755A		42.0	6.0	70.0	1500	0.25	5	32.7	110	22	5000	
LL4756A		47.0	5.5	80.0	1500	0.25	5	35.8	98	19	5000	
LL4757A		51.0	5.0	95.0	1500	0.25	5	38.8	90	18	5000	
LL4758A		56.0	4.5	110.0	2000	0.25	5	42.6	80	16	5000	
LL4759A		62.0	4.0	125.0	2000	0.25	5	47.1	70	14	5000	
LL4760A		68.0	3.7	150.0	2000	0.25	5	51.7	65	13	5000	
LL4761A		75.0	3.3	175.0	2000	0.25	5	56.0	60	12	5000	
LL4762A		82.0	3.0	200.0	3000	0.25	5	62.2	55	11	5000	
LL4763A		91.0	2.8	250.0	3000	0.25	5	69.2	50	10	5000	
LL4764A		100.0	2.5	350.0	3000	0.25	5	76.0	45	9	5000	