

RELIABILITY DATA					
G311E QUALIFICATION DATA					
6/26/2019					
• J-STD-020 MSL 3 PRECONDITIONING: 192h +30°C/60%R.H. SOAK, 3x REFLOW AT +250°C PEAK					
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE		NUMBER OF FAILURES
LTM8024	311 311	1843	1843		0 0
• J-STD-020 MSL 3 PRECONDITIONING: 192h +30°C/60%R.H. SOAK, 3x REFLOW AT +245°C PEAK					
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE		NUMBER OF FAILURES
LTM4630	241	1846	1903		0
LTM4642	299	1903	1903		0
LTM4650	241 781	1846	1846		0 0
• J-STD-020 MSL 4 PRECONDITIONING: 96h +30°C/60%R.H. SOAK, 3x REFLOW AT +245°C PEAK					
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE		NUMBER OF FAILURES
LTM4634	400	1813	1813		0
LTM4677	400	1903	1903		0
LTM4678	261 1,061	1840	1840		0 0
• HIGH TEMPERATURE STORAGE +150°C					
DEVICE	SAMPLE SIZE	OLDEST	NEWEST	K DEVICE HOURS AT	NUMBER OF FAILURES
LTM8024	77	1843	1843	77.00	0
LTM4634	50	1813	1813	25.00	0
LTM4642	49	1903	1903	49.00	0
LTM4677	50	1903	1903	75.00	0
LTM4678	50 276	1840	1840	75.00 301.00	0 0
• TEMP CYCLE FROM -55°C to +125°C⁽¹⁾					
DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES
LTM8024	77	1843	1843	77.00	0
LTM4630	80	1846	1903	40.00	0
LTM4634	84	1813	1813	84.00	0
LTM4642	85	1903	1903	42.50	0
LTM4650	80	1846	1846	40.00	0
LTM4677	100	1903	1903	200.00	0
LTM4678	77 583	1840	1840	77.00 560.50	0 0

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• THERMAL SHOCK FROM -55°C to +125°C ⁽¹⁾

DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES
LTM8024	77	1843	1843	77.00	0
LTM4630	80	1846	1903	40.00	0
LTM4634	85	1813	1813	42.50	0
LTM4642	100	1903	1903	100.00	0
LTM4650	80	1846	1846	40.00	0
LTM4677	99	1903	1903	198.00	0
LTM4678	77	1840	1840	77.00	0
	598			574.50	0

• UNBIASED HIGHLY ACCELERATED STRESS TEST +110°C/85% R.H. ⁽¹⁾

DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS AT +130°C	NUMBER OF FAILURES
LTM8024	76	1843	1843	14.59	0
LTM4630	80	1846	1903	7.68	0
LTM4634	99	1813	1813	19.01	0
LTM4642	100	1903	1903	19.20	0
LTM4650	80	1846	1846	7.68	0
LTM4677	100	1903	1903	19.20	0
LTM4678	77	1840	1840	7.39	0
	612			87.36	0

• BIASED HIGHLY ACCELERATED STRESS TEST +130°C/85% R.H. ⁽¹⁾

DEVICE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS AT +130°C	NUMBER OF FAILURES
LTM8024	29	1843	1843	2.78	0
	29	1843	1843	2.78	0

(1) Environmental stress are preceded by J-STD-020 Preconditioning