



(MCF5282/ MCF5216, 0N04K / 17X17 MAPBGA256) Electrical Distribution, Revision
Aug2022

					Time0 (0N04K, CHD)			Post-HTOL 696hrs (0N04K, CHD)			T0 Mean Drift toward LSL	T0 Mean Drift toward USL	Baseline T0 Data (2L95M, TSMC3)			T0 Mean Shift toward LSL	T0 Mean Shift toward USL
Parameter Name, as in Datasheet	Units	Temp (°C)	Lower Spec Limit (NA if no spec)	Upper Spec Limit (NA if no spec)	Avg	Std	Cpk	Avg	Std	Cpk	Drift within +/-1 sigma or less than +/-15% to spec	Drift within +/-1 sigma or less than +/-15% to spec	Avg	Std	Cpk	Drift within +/-1 sigma or less than +/-15% to spec	Drift within +/-1 sigma or less than +/-15% to spec
Trip_IDD ti vdd	mA	25	NA	200	82.562	3.746	10.45	83.331	3.851	10.10	NA	PASS	88.244	5.806	6.42	NA	PASS
Input Leakage Current_low	uA	25	-1	1	-0.003	0.004	88.84	-0.002	0.003	118.61	PASS	PASS	-0.002	0.003	127.52	PASS	PASS
Input Leakage Current_high	uA	25	-1	1	-0.004	0.004	93.11	-0.005	0.004	93.70	PASS	PASS	-0.001	0.001	351.36	PASS	PASS
QADC_ABS		25	-2	2	0.745	0.222	1.88	0.791	0.190	2.12	PASS	PASS	0.721	0.233	1.83	PASS	PASS
Run_IDD ti	mA	25	NA	240	193.885	6.309	2.44	189.522	6.667	2.52	NA	PASS	190.705	9.724	1.69	NA	PASS
Trip_IDD ti vdd	mA	125	NA	200	76.072	2.529	16.33	76.126	2.507	16.47	NA	PASS	78.258	1.773	22.89	NA	PASS
Leakage_low ti a23	uA	125	-1	1	-0.006	0.004	89.35	-0.005	0.002	133.75	PASS	PASS	-0.003	0.003	131.65	PASS	PASS
Leakage_high ti a23	uA	125	-1	1	0.004	0.004	78.70	0.005	0.004	82.87	PASS	PASS	0.007	0.003	118.96	PASS	PASS
QADC_ABS		125	-2	2	0.691	0.208	2.10	0.731	0.168	2.51	PASS	PASS	0.583	0.185	2.56	PASS	PASS
Run_IDD ti	mA	125	NA	240	190.591	6.874	2.40	189.174	6.715	2.52	NA	PASS	187.963	5.549	3.13	NA	PASS
Trip_IDD ti vdd	A	-40	NA	200	87.929	4.231	8.83	88.103	4.340	8.59	NA	PASS	93.333	2.421	14.69	NA	PASS
Leakage_low ti a23	A	-40	-1	1	-0.003	0.004	89.85	-0.003	0.002	174.81	PASS	PASS	-0.001	0.001	265.87	PASS	PASS
Leakage_high ti a23	A	-40	-1	1	-0.005	0.004	88.49	-0.006	0.002	189.58	PASS	PASS	-0.004	0.007	47.00	PASS	PASS
QADC_ABS		-40	-2	2	0.737	0.211	2.00	0.835	0.207	1.87	PASS	PASS	0.710	0.215	2.00	PASS	PASS
Run_IDD ti	mA	-40	NA	240	189.217	6.388	2.65	179.068	8.965	2.27	NA	PASS	191.168	6.179	2.63	NA	PASS