

ESD CHARACTERISTICS

PRODUCTS: SMT CERAMIC CHIP CAPACITORS

NIC P/N: NMC-H1812X7R103K1KVTRPLP
DESC: X7R / 1812 / 0.01uF / ±10% / 1KV

TEST LEVEL	S/N	CAP.(%)			DF (E-4)		IR(M-OHM)	
		INITIAL	AFTER ESD	DELTA C/C	INITIAL	AFTER ESD	INITIAL	AFTER ESD
100V	1	2.72	6.11	3.30	66.90	78.90	nE+5	nE+5
	2	1.16	5.13	3.92	65.80	83.80		
	3	2.70	6.88	4.07	66.40	85.20		
	4	1.28	5.22	3.89	66.30	85.80		
	5	2.65	7.02	4.26	67.70	86.80		
	6	2.65	6.97	4.21	68.10	87.50		
	7	0.42	4.50	4.06	67.00	85.60		
	8	1.55	5.73	4.12	68.00	85.70		
	9	1.84	7.04	5.11	66.50	85.20		
	10	2.87	7.39	4.39	67.70	86.30		
	11	3.08	8.47	5.23	67.80	86.60		
	12	1.99	6.73	4.65	65.60	85.00		
	13	3.84	9.10	5.07	66.90	86.10		
	14	1.89	6.05	4.08	67.50	86.00		
	15	2.10	6.37	4.18	67.60	86.50		
500V	16	1.48	5.59	4.05	66.60	85.20	nE+5	nE+5
	17	5.00	10.23	4.98	67.20	86.60		
	18	1.50	5.62	4.06	66.90	86.10		
	19	1.71	5.47	3.70	67.50	85.70		
	20	1.59	5.87	4.21	66.70	85.70		
	21	1.01	4.82	3.77	66.90	83.90		
	22	1.53	5.29	3.70	67.90	84.10		
	23	1.18	4.44	3.22	66.50	84.70		
	24	1.70	5.81	4.04	65.70	85.20		
	25	1.32	5.64	4.26	67.30	87.30		
	26	0.69	4.82	4.10	66.70	86.10		
	27	0.96	5.07	4.07	66.40	85.40		
	28	0.80	4.91	4.08	65.20	84.60		
	29	1.62	6.47	4.77	66.10	84.90		
	30	2.03	5.66	3.56	68.20	86.10		

TEST LEVEL	S/N	CAP. (%)			DF (E-4)		IR(M-OHM)	
		INITIAL	AFTER ESD	DELTA C/C	INITIAL	AFTER ESD	INITIAL	AFTER ESD
10KV	31	2.21	5.39	3.11	68.60	83.70	nE+5	nE+5
	32	2.00	5.12	3.06	66.90	80.40		
	33	1.56	5.09	3.48	67.20	83.90		
	34	0.15	3.02	2.87	66.80	83.70		
	35	1.67	5.98	4.24	68.80	83.90		
	36	1.33	4.41	3.04	66.90	83.30		
	37	0.61	3.76	3.13	65.80	80.10		
	38	1.84	6.16	4.24	66.80	83.50		
	39	4.60	9.61	4.79	67.20	84.60		
	40	0.78	4.74	3.93	66.90	84.10		
	41	2.24	6.38	4.05	67.00	84.20		
	42	2.41	5.32	2.84	68.20	81.40		
	43	3.06	7.35	4.16	67.40	84.30		
	44	0.60	3.84	3.22	67.00	83.90		
	45	1.03	5.06	3.99	66.70	83.50		
15KV	46	1.89	3.44	1.52	68.00	84.90	nE+5	nE+5
	47	2.39	5.13	2.68	68.00	82.90		
	48	-0.61	1.44	2.06	66.40	84.30		
	49	0.30	3.13	2.82	67.60	85.70		
	50	2.24	4.43	2.14	67.20	83.10		
	51	2.23	5.91	3.60	67.60	84.50		
	52	2.07	5.93	3.78	66.50	83.30		
	53	3.63	7.52	3.75	67.70	83.50		
	54	2.75	5.25	2.43	67.60	83.80		
	55	1.56	4.35	2.75	67.20	82.70		
	56	1.57	5.27	3.64	66.70	83.50		
	57	2.07	5.69	3.55	67.30	84.60		
	58	2.84	6.17	3.24	67.60	84.10		
	59	1.17	4.39	3.18	65.90	78.90		
	60	1.16	5.12	3.91	66.80	82.20		

1. TEST CONDITIONS: SINGLE 120ms PULSE PER EIA/IS-703, MIL-STD 883C METHOD 3015.3
2. "DELTA C/C" REFERS TO CAPACITANCE CHANGE (%) WHEN REFERENCE TO INITIAL PRETEST VALUE.