



Endurance – Life Test

PN: NPI 75C221KHTRF (220uH ±10% SMT Power Inductor)

MIL-STD-202 Method 108 test condition D

CONDITION: 125°C +2/-°C ; 1000 ±12 Hours; 48-piece sample; Rated Current: 0.49 A

Equipment : Temperature Chamber, RF LCR METER(HP4284A)

REQUIREMENT:

a. Appearance; Cracking, chipping and any other defects harmful to the characteristics should not be allowed

b. Inductance: Within ±10% of initial value.

NO.	Before	After	Change (%)	Appearance	NO.	Before	After	Change (%)	Appearance
	L (uH)	L (uH)	L			L (uH)	L (uH)	L	
1	209.83	218.90	4.32	OK	25	227.79	216.74	-4.85	OK
2	223.56	220.64	-1.31	OK	26	227.69	214.02	-6.00	OK
3	210.05	216.82	3.22	OK	27	230.45	213.97	-7.15	OK
4	228.69	223.62	-2.22	OK	28	214.21	220.83	3.09	OK
5	219.28	216.06	-1.47	OK	29	223.03	224.62	0.71	OK
6	229.83	216.57	-5.77	OK	30	228.48	214.09	-6.30	OK
7	226.51	226.59	0.04	OK	31	210.59	215.53	2.35	OK
8	228.38	224.46	-1.72	OK	32	228.07	224.18	-1.71	OK
9	220.30	215.45	-2.20	OK	33	217.97	213.29	-2.15	OK
10	227.89	214.26	-5.98	OK	34	227.73	215.35	-5.44	OK
11	229.99	226.73	-1.42	OK	35	218.53	221.20	1.22	OK
12	218.61	219.06	0.21	OK	36	223.37	215.02	-3.74	OK
13	217.10	218.27	0.54	OK	37	211.57	215.80	2.00	OK
14	217.82	221.83	1.84	OK	38	213.08	215.82	1.29	OK
15	219.74	219.97	0.10	OK	39	224.16	215.34	-3.93	OK
16	214.56	214.04	-0.24	OK	40	214.03	219.82	2.71	OK
17	221.33	216.77	-2.06	OK	41	213.87	222.32	3.95	OK
18	220.83	225.45	2.09	OK	42	213.11	224.34	5.27	OK
19	218.04	220.29	1.03	OK	43	225.56	218.58	-3.09	OK
20	209.73	220.54	5.15	OK	44	212.59	226.13	6.37	OK
21	219.87	224.85	2.26	OK	45	227.22	217.64	-4.22	OK
22	225.31	219.53	-2.57	OK	46	216.69	225.86	4.23	OK
23	210.10	220.11	4.76	OK	47	221.82	214.99	-3.08	OK
24	224.96	217.16	-3.47	OK	48	213.59	215.88	1.07	OK
AVG	223.02	218.30	-2.03	-	R	20.62	13.30	11.47	-
MAX	230.45	226.59	4.32	-	Σ	7.04	4.32	3.52	-
MIN	209.83	213.29	-7.15	-					

Test Result: PASS