

## SMD / SMT Inductors (Coils)

May 23, 2024  
Simple Model

Automotive Grade for High Frequency Circuits / MHQ1005075HA series (1/4)

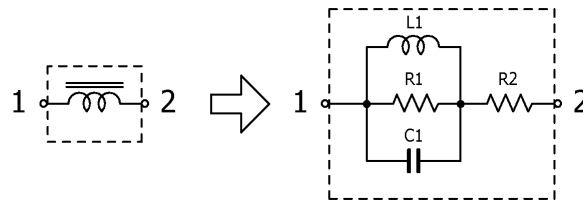
### Circuit Diagram



### Circuit Parameters

Part No.	L1[uH]	R1[ohm]	C1[pF]	R2[ohm]
MHQ1005075HA1N0BTD25	0.0010	5,800	0.081	0.0345
MHQ1005075HA1N0STD25	0.0010	5,800	0.081	0.0345
MHQ1005075HA1N1BTD25	0.0011	6,100	0.084	0.0542
MHQ1005075HA1N1STD25	0.0011	6,100	0.084	0.0542
MHQ1005075HA1N2BTD25	0.0012	6,700	0.082	0.0405
MHQ1005075HA1N2STD25	0.0012	6,700	0.082	0.0405
MHQ1005075HA1N3BTD25	0.0013	5,700	0.092	0.0363
MHQ1005075HA1N3STD25	0.0013	5,700	0.092	0.0363
MHQ1005075HA1N4BTD25	0.0014	6,300	0.086	0.0456
MHQ1005075HA1N4STD25	0.0014	6,300	0.086	0.0456
MHQ1005075HA1N5BTD25	0.0015	6,900	0.082	0.0447
MHQ1005075HA1N5STD25	0.0015	6,900	0.082	0.0447
MHQ1005075HA1N6BTD25	0.0016	7,900	0.077	0.0156
MHQ1005075HA1N6STD25	0.0016	7,900	0.077	0.0156
MHQ1005075HA1N7BTD25	0.0017	7,700	0.083	0.0277
MHQ1005075HA1N7STD25	0.0017	7,700	0.083	0.0277
MHQ1005075HA1N8BTD25	0.0018	7,800	0.090	0.0308
MHQ1005075HA1N8STD25	0.0018	7,800	0.090	0.0308
MHQ1005075HA1N9BTD25	0.0019	8,200	0.089	0.0349
MHQ1005075HA1N9STD25	0.0019	8,200	0.089	0.0349
MHQ1005075HA2N0BTD25	0.0020	7,800	0.097	0.0358
MHQ1005075HA2N0STD25	0.0020	7,800	0.097	0.0358
MHQ1005075HA2N1BTD25	0.0021	9,200	0.090	0.0184
MHQ1005075HA2N1STD25	0.0021	9,200	0.090	0.0184
MHQ1005075HA2N2BTD25	0.0022	8,900	0.099	0.0282
MHQ1005075HA2N2STD25	0.0022	8,900	0.099	0.0282
MHQ1005075HA2N3BTD25	0.0023	8,700	0.104	0.0314
MHQ1005075HA2N3STD25	0.0023	8,700	0.104	0.0314
MHQ1005075HA2N4BTD25	0.0024	8,900	0.107	0.0517
MHQ1005075HA2N4STD25	0.0024	8,900	0.107	0.0517
MHQ1005075HA2N5BTD25	0.0025	9,400	0.102	0.0384
MHQ1005075HA2N5STD25	0.0025	9,400	0.102	0.0384
MHQ1005075HA2N6BTD25	0.0026	9,100	0.103	0.0544
MHQ1005075HA2N6STD25	0.0026	9,100	0.103	0.0544
MHQ1005075HA2N7BTD25	0.0027	8,500	0.109	0.0339
MHQ1005075HA2N7STD25	0.0027	8,500	0.109	0.0339

### Circuit Diagram



### Circuit Parameters

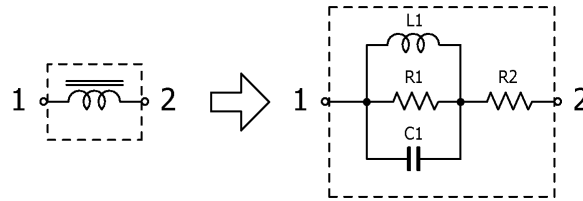
Part No.	L1[uH]	R1[ohm]	C1[pF]	R2[ohm]
MHQ1005075HA2N8BTD25	0.0028	7,600	0.130	0.0580
MHQ1005075HA2N8STD25	0.0028	7,600	0.130	0.0580
MHQ1005075HA2N9BTD25	0.0029	7,800	0.127	0.0496
MHQ1005075HA2N9STD25	0.0029	7,800	0.127	0.0496
MHQ1005075HA3N0BTD25	0.0030	8,900	0.111	0.0552
MHQ1005075HA3N0STD25	0.0030	8,900	0.111	0.0552
MHQ1005075HA3N1BTD25	0.0031	9,700	0.111	0.0338
MHQ1005075HA3N1STD25	0.0031	9,700	0.111	0.0338
MHQ1005075HA3N2BTD25	0.0032	9,700	0.106	0.0570
MHQ1005075HA3N2STD25	0.0032	9,700	0.106	0.0570
MHQ1005075HA3N3BTD25	0.0033	11,000	0.100	0.0503
MHQ1005075HA3N3STD25	0.0033	11,000	0.100	0.0503
MHQ1005075HA3N4BTD25	0.0034	10,000	0.114	0.0446
MHQ1005075HA3N4STD25	0.0034	10,000	0.114	0.0446
MHQ1005075HA3N5BTD25	0.0035	8,500	0.130	0.0556
MHQ1005075HA3N5STD25	0.0035	8,500	0.130	0.0556
MHQ1005075HA3N6BTD25	0.0036	8,700	0.136	0.0714
MHQ1005075HA3N6STD25	0.0036	8,700	0.136	0.0714
MHQ1005075HA3N7BTD25	0.0037	9,200	0.131	0.0823
MHQ1005075HA3N7STD25	0.0037	9,200	0.131	0.0823
MHQ1005075HA3N8BTD25	0.0038	9,800	0.129	0.0813
MHQ1005075HA3N8STD25	0.0038	9,800	0.129	0.0813
MHQ1005075HA3N9BTD25	0.0039	11,000	0.121	0.0435
MHQ1005075HA3N9STD25	0.0039	11,000	0.121	0.0435
MHQ1005075HA4N0BTD25	0.0040	11,000	0.126	0.0579
MHQ1005075HA4N0STD25	0.0040	11,000	0.126	0.0579
MHQ1005075HA4N1BTD25	0.0041	11,000	0.123	0.0693
MHQ1005075HA4N1STD25	0.0041	11,000	0.123	0.0693
MHQ1005075HA4N2BTD25	0.0042	10,000	0.131	0.0701
MHQ1005075HA4N2STD25	0.0042	10,000	0.131	0.0701
MHQ1005075HA4N3BTD25	0.0043	10,000	0.128	0.0777
MHQ1005075HA4N3STD25	0.0043	10,000	0.128	0.0777
MHQ1005075HA4N7BTD25	0.0047	8,800	0.158	0.0734
MHQ1005075HA4N7STD25	0.0047	8,800	0.158	0.0734
MHQ1005075HA5N1BTD25	0.0051	9,800	0.153	0.1514
MHQ1005075HA5N1STD25	0.0051	9,800	0.153	0.1514

## SMD / SMT Inductors (Coils)

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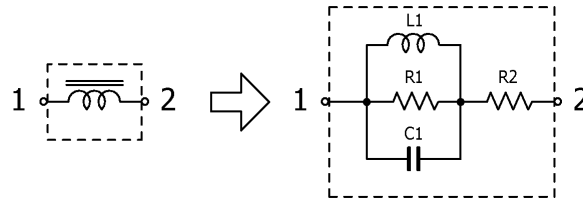
### Circuit Diagram



### Circuit Parameters

Part No.	L1[uH]	R1[ohm]	C1[pF]	R2[ohm]
MHQ1005075HA5N6BTD25	0.0056	12,000	0.126	0.1166
MHQ1005075HA5N6STD25	0.0056	12,000	0.126	0.1166
MHQ1005075HA5N8BTD25	0.0058	12,000	0.128	0.1440
MHQ1005075HA5N8STD25	0.0058	12,000	0.128	0.1440
MHQ1005075HA6N2BTD25	0.0062	13,000	0.133	0.1151
MHQ1005075HA6N2STD25	0.0062	13,000	0.133	0.1151
MHQ1005075HA6N8HTD25	0.0068	12,000	0.143	0.1154
MHQ1005075HA6N8JTD25	0.0068	12,000	0.143	0.1154
MHQ1005075HA7N3HTD25	0.0073	12,000	0.138	0.1970
MHQ1005075HA7N3JTD25	0.0073	12,000	0.138	0.1970
MHQ1005075HA7N5HTD25	0.0075	12,000	0.149	0.1624
MHQ1005075HA7N5JTD25	0.0075	12,000	0.149	0.1624
MHQ1005075HA8N2HTD25	0.0082	14,000	0.137	0.1556
MHQ1005075HA8N2JTD25	0.0082	14,000	0.137	0.1556
MHQ1005075HA8N7HTD25	0.0087	12,000	0.155	0.1552
MHQ1005075HA8N7JTD25	0.0087	12,000	0.155	0.1552
MHQ1005075HA9N1HTD25	0.0091	13,000	0.158	0.1606
MHQ1005075HA9N1JTD25	0.0091	13,000	0.158	0.1606
MHQ1005075HA9N5HTD25	0.0095	14,000	0.157	0.1517
MHQ1005075HA9N5JTD25	0.0095	14,000	0.157	0.1517
MHQ1005075HA10NHTD25	0.010	14,000	0.143	0.2282
MHQ1005075HA10NJTD25	0.010	14,000	0.143	0.2282
MHQ1005075HA11NHTD25	0.011	12,000	0.202	0.1917
MHQ1005075HA11NJTD25	0.011	12,000	0.202	0.1917
MHQ1005075HA12NHTD25	0.012	15,000	0.150	0.2936
MHQ1005075HA12NJTD25	0.012	15,000	0.150	0.2936
MHQ1005075HA13NHTD25	0.013	15,000	0.150	0.2738
MHQ1005075HA13NJTD25	0.013	15,000	0.150	0.2738
MHQ1005075HA15NHTD25	0.015	14,000	0.161	0.3825
MHQ1005075HA15NJTD25	0.015	14,000	0.161	0.3825
MHQ1005075HA16NHTD25	0.016	17,000	0.149	0.3283
MHQ1005075HA16NJTD25	0.016	17,000	0.149	0.3283
MHQ1005075HA18NHTD25	0.018	18,000	0.143	0.3853
MHQ1005075HA18NJTD25	0.018	18,000	0.143	0.3853
MHQ1005075HA19NHTD25	0.019	18,000	0.164	0.4029
MHQ1005075HA19NJTD25	0.019	18,000	0.164	0.4029

### Circuit Diagram



### Circuit Parameters

Part No.	L1[μH]	R1[ohm]	C1[pF]	R2[ohm]
MHQ1005075HA20NHTD25	0.020	18,000	0.157	0.4221
MHQ1005075HA20NJTD25	0.020	18,000	0.157	0.4221
MHQ1005075HA22NHTD25	0.022	17,000	0.180	0.3019
MHQ1005075HA22NJTD25	0.022	17,000	0.180	0.3019
MHQ1005075HA23NHTD25	0.023	19,000	0.167	0.4758
MHQ1005075HA23NJTD25	0.023	19,000	0.167	0.4758
MHQ1005075HA24NHTD25	0.024	20,000	0.167	0.4715
MHQ1005075HA24NJTD25	0.024	20,000	0.167	0.4715
MHQ1005075HA27NHTD25	0.027	17,000	0.183	0.3829
MHQ1005075HA27NJTD25	0.027	17,000	0.183	0.3829
MHQ1005075HA30NHTD25	0.030	20,000	0.164	0.5859
MHQ1005075HA30NJTD25	0.030	20,000	0.164	0.5859
MHQ1005075HA33NHTD25	0.033	21,000	0.166	0.6186
MHQ1005075HA33NJTD25	0.033	21,000	0.166	0.6186
MHQ1005075HA36NHTD25	0.036	24,000	0.156	0.6647
MHQ1005075HA36NJTD25	0.036	24,000	0.156	0.6647
MHQ1005075HA39NHTD25	0.039	21,000	0.166	0.6811
MHQ1005075HA39NJTD25	0.039	21,000	0.166	0.6811
MHQ1005075HA40NHTD25	0.040	23,000	0.164	0.6797
MHQ1005075HA40NJTD25	0.040	23,000	0.164	0.6797
MHQ1005075HA43NHTD25	0.043	24,000	0.162	0.7128
MHQ1005075HA43NJTD25	0.043	24,000	0.162	0.7128
MHQ1005075HA47NHTD25	0.047	21,000	0.214	0.8915
MHQ1005075HA47NJTD25	0.047	21,000	0.214	0.8915
MHQ1005075HA51NHTD25	0.051	25,000	0.166	0.8018
MHQ1005075HA51NJTD25	0.051	25,000	0.166	0.8018
MHQ1005075HA56NHTD25	0.056	21,000	0.228	1.0164
MHQ1005075HA56NJTD25	0.056	21,000	0.228	1.0164