FEATURES

This miniature chip inductors wound on a special ferrite core.
High Q value at high frequencies and low DC resistance.
Wide inductance range.
Excellent solder heat resistance. Both flow and reflow soldering methods be employed.

APPLICATIONS

Pagers, Cordless phones.
High Freq. Communication Products.
GPS (Global Position System).
ADSL

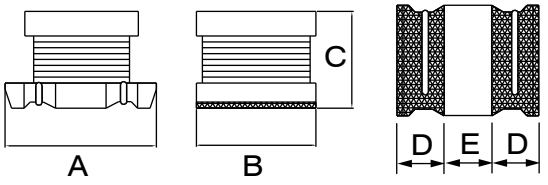
PRODUCT IDENTIFICATION

❶ ❷ ❸ ❹ ❺ ❻

MSCH - 3225Q - 100M □□

❶ Product Code
❷ Dimensions Code
❸ High Q
❹ Inductance Code
❺ Tolerance Code
❻ Pattern Code

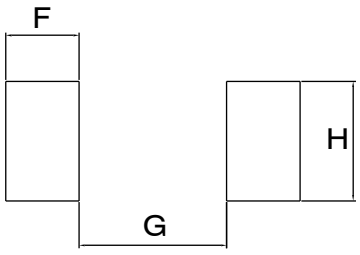
PRODUCT SERIES



NOTES: DIMENSION IN mm

PART NO.	A	B	C	D	E
MSCH-3225Q	3.2±0.3	2.5±0.2	2.0±0.30	1.0	1.2
MSCH-4532Q	4.5±0.3	3.2±0.2	2.6±0.30	1.5	1.5

LAND PATTERN



NOTES: DIMENSION IN mm

PART NO.	F	G	H
MSCH-3225Q	1.5	1.0	2.8
MSCH-4532Q	2.0	1.2	3.5

■ PRODUCT SPECIFICATIONS

Part No.	Inductance (μH)	Test Feq. MHz		Quality Factor Min.		Test Feq.		DC Resistance (Max.)		Self Resonant Freq. (MHz)Min.		Rated Current mA(Max.)	
		3225Q	4532Q	3225Q	4532Q	3225Q	4532Q	3225Q	4532Q	3225Q	4532Q	3225Q	4532Q
1R0	1.0	1	1	20	20	1	1	0.5	0.20	100	120	445	500
1R2	1.2	1	1	20	20	1	1	0.6	0.20	100	100	425	500
1R5	1.5	1	1	20	20	1	1	0.6	0.30	75	85	400	500
1R8	1.8	1	1	20	20	1	1	0.7	0.30	60	75	390	500
2R2	2.2	1	1	20	20	1	1	0.8	0.30	50	62	370	500
2R7	2.7	1	1	20	20	1	1	0.9	0.32	43	53	320	500
3R3	3.3	1	1	20	20	1	1	1.0	0.35	38	47	300	500
3R9	3.9	1	1	20	20	1	1	1.1	0.38	35	41	290	500
4R7	4.7	1	1	20	30	1	1	1.2	0.40	31	38	270	500
5R6	5.6	1	1	20	30	1	1	1.3	0.47	28	33	250	500
6R8	6.8	1	1	20	30	1	1	1.5	0.50	25	31	240	450
8R2	8.2	1	1	20	30	1	1	1.6	0.56	23	27	225	450
100	10	1	1	35	35	1	1	1.8	0.56	20	23	190	400
120	12	1	1	35	35	1	1	2.0	0.62	18	21	180	380
150	15	1	1	35	35	1	1	2.2	0.73	16	19	170	360
180	18	1	1	35	35	1	1	2.5	0.82	15	17	165	340
220	22	1	1	35	35	1	1	2.8	0.94	14	15	150	320
270	27	1	1	40	35	1	1	3.1	1.10	13	14	125	300
330	33	1	1	40	35	1	1	3.5	1.20	12	12	115	270
390	39	1	1	40	35	1	1	3.9	1.40	11	11	110	240
470	47	1	1	40	35	1	1	4.3	1.50	11	10	100	220
560	56	1	1	40	35	1	1	4.9	1.70	10	9.3	85	200
680	68	1	1	40	35	1	1	5.5	1.90	9	8.4	80	180
820	82	1	1	40	35	1	1	6.2	2.20	8.5	7.5	70	170
101	100	1	1	40	40	0.796	0.796	7.0	2.50	8	6.8	68	160
121	120	1	1	40	40	0.796	0.796	8.0	3.00	7.5	6.2	67	150
151	150	1	1	40	40	0.796	0.796	9.3	3.70	7	5.5	66	130
181	180	1	1	40	40	0.796	0.796	10.2	4.50	6	5.0	65	120
221	220	1	1	40	40	0.796	0.796	11.8	5.40	5.5	4.5	65	110
271	270	1	1	40	40	0.796	0.796	12.5	6.80	5	4.0	65	100
331	330	1	1	40	40	0.796	0.796	13.0	8.20	5	3.6	65	95
391	390	1	1	50	40	0.796	0.796	22.0	9.70	5	3.3	50	90
471	470	1KHz	1KHz	50	40	0.796	0.796	25.0	11.8	5	3.0	45	80
561	560	1KHz	1KHz	50	40	0.796	0.796	28.0	14.5	5	2.7	40	70
681	680		1KHz		40		0.796		17.0		2.5		65
821	820		1KHz		40		0.796		20.5		2.2		60
102	1000		1KHz		40		0.252		25.0		2.0		50
122	1200		1KHz		40		0.252		30.0		1.8		45
152	1500		1KHz		40		0.252		37.0		1.6		40
182	1800		1KHz		40		0.252		45.0		1.5		35
222	2200		1KHz		40		0.252		50.0		1.3		30

1.TOLERANCE OF INDUCTANCE 1.0~8.2 μH ±20%(M),10~2200 μH±10%(K)
2.The max. permissible DC current is the DC current applied which causes 10% reduction of its initial inductance value, or the coil temperature to rise by 40˚C, whichever is lower.