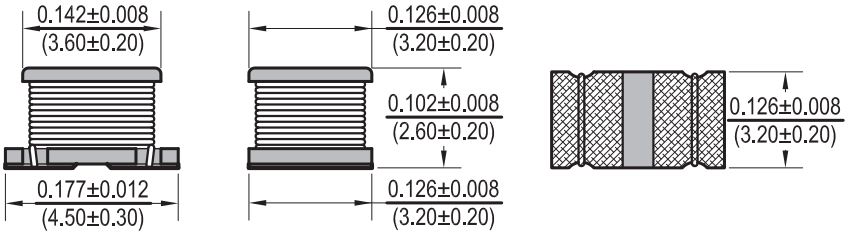
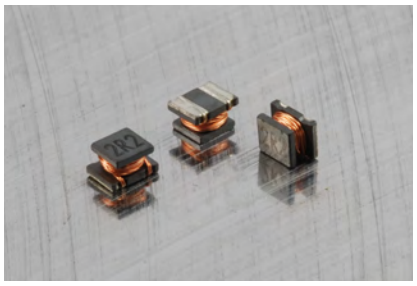
LRHQ30 Low Resistance High Q Chip Inductors

RoHS

Dimensions: Inches / (mm)





Features

- Miniture chip inductor wound on special ferrite core
- Wide inductance range
- Low DC resistance
- High Q value at high frequencies

Electrical

Inductance Range: 1µh ~ 2200µh
Tolerance: 20% over entire range also available in tighter tolerances
Operating Temp: -25ºC ~ +85ºC
Rated Current: Max temperature rise 35ºC. Inductance drop 10% typ.
L/Q: Test OSC @ 1V

Resistance to Soldering Heat

Pre-Heat 150ºC, 1 minute.
Solder Composition: Sn/Ag3.0/Cu0.5
Solder Temp: 260ºC ± 5ºC for 10 sec.

Test Equipment

(L/Q): HP4192A
(RDC): Chen Hwa 502BC
Rated Current: HP4284A + HP42841A
(SRF): HP4286A

Physical

Packaging: 500 pieces per 7 inch reel.
Marking: EIA Inductance Code

Allied Part Number	Inductance (µh)	Tolerance (%)	L/Q Test Freq.	Q Min.	SRF Min. (MHz)	DCR Max. (Ω)	Rated Current (A)Max
LRHQ30-1R0M-RC	1.0	20	1MHz/1MHz	20	120	0.20	0.5
LRHQ30-1R2M-RC	1.2	20	1MHz/1MHz	20	100	0.20	0.5
LRHQ30-1R5M-RC	1.5	20	1MHz/1MHz	20	85	0.30	0.5
LRHQ30-1R8M-RC	1.8	20	1MHz/1MHz	20	75	0.30	0.5
LRHQ30-2R2M-RC	2.2	20	1MHz/1MHz	20	62	0.30	0.5
LRHQ30-2R7M-RC	2.7	20	1MHz/1MHz	20	53	0.32	0.5
LRHQ30-3R3M-RC	3.3	20	1MHz/1MHz	20	47	0.35	0.5
LRHQ30-3R9M-RC	3.9	20	1MHz/1MHz	20	41	0.38	0.5
LRHQ30-4R7M-RC	4.7	20	1MHz/1MHz	30	38	0.40	0.5
LRHQ30-5R6M-RC	5.6	20	1MHz/1MHz	30	33	0.47	0.5
LRHQ30-6R8M-RC	6.8	20	1MHz/1MHz	30	31	0.50	.45
LRHQ30-8R2M-RC	8.2	20	1MHz/1MHz	30	27	0.56	.45
LRHQ30-100K-RC	10	10	1MHz/1MHz	35	23	0.56	.40
LRHQ30-120K-RC	12	10	1MHz/1MHz	35	21	0.62	.38
LRHQ30-150K-RC	15	10	1MHz/1MHz	35	19	0.73	.38
LRHQ30-180K-RC	18	10	1MHz/1MHz	35	17	0.82	.34
LRHQ30-220K-RC	22	10	1MHz/1MHz	35	15	0.94	.32
LRHQ30-270K-RC	27	10	1MHz/1MHz	35	14	1.10	.30
LRHQ30-330K-RC	33	10	1MHz/1MHz	35	12	1.20	.27
LRHQ30-390K-RC	39	10	1MHz/1MHz	35	11	1.40	.24
LRHQ30-470K-RC	47	10	1MHz/1MHz	35	10	1.50	.22
LRHQ30-560K-RC	56	10	1MHz/1MHz	35	9.3	1.70	.20
LRHQ30-680K-RC	68	10	1MHz/1MHz	35	8.4	1.90	.18
LRHQ30-820K-RC	82	10	1MHz/1MHz	35	7.5	2.20	.17
LRHQ30-101K-RC	100	10	1MHz/.796MHz	40	6.8	2.50	.16
LRHQ30-121K-RC	120	10	1MHz/.796MHz	40	6.2	3.00	.15
LRHQ30-151K-RC	150	10	1MHz/.796MHz	40	5.5	3.70	.13
LRHQ30-181K-RC	180	10	1MHz/.796MHz	40	5.0	4.50	.12
LRHQ30-221K-RC	220	10	1MHz/.796MHz	40	4.5	5.40	.11
LRHQ30-271K-RC	270	10	1MHz/.796MHz	40	4.0	6.80	.10
LRHQ30-331K-RC	330	10	1MHz/.796MHz	40	3.6	8.20	.095
LRHQ30-391K-RC	390	10	1MHz/.796MHz	40	3.3	9.70	0.09
LRHQ30-471K-RC	470	10	1KHz/.796MHz	40	3.0	11.8	0.08
LRHQ30-561K-RC	560	10	1KHz/.796MHz	40	2.7	14.5	0.07
LRHQ30-681K-RC	680	10	1KHz/.796MHz	40	2.5	17.5	.065
LRHQ30-821K-RC	820	10	1KHz/.796MHz	40	2.2	20.5	.060
LRHQ30-102K-RC	1000	10	1KHz/.252MHz	40	2.0	25.0	.050
LRHQ30-122K-RC	1200	10	1KHz/.252MHz	40	1.8	30.0	.045
LRHQ30-152K-RC	1500	10	1KHz/.252MHz	40	1.6	37.0	0.04
LRHQ30-182K-RC	1800	10	1KHz/.252MHz	40	1.5	45.0	.035
LRHQ30-222K-RC	2200	10	1KHz/.252MHz	40	1.3	50.0	0.03

All specifications subject to change without notice.