







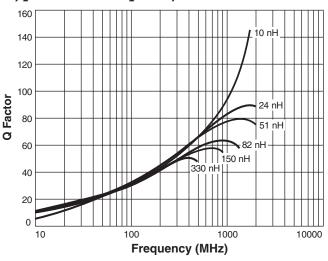


Chip Inductors - 0603HP Series (1608)

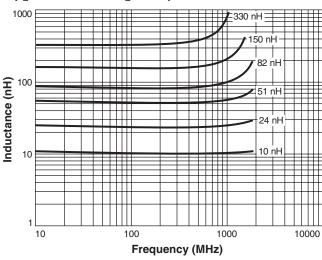


- Higher Q and lower DCR than other 0603 inductors
- Highest SRF values as high as 16 GHz
- Excellent current handling capability up to 2100 mA
- 54 inductance values from 1.8 to 390 nH

Typical Q vs Frequency



Typical L vs Frequency



Core material Ceramic

Environmental RoHS compliant, halogen free

Terminations Silver-palladium-platinum-glass frit. Other terminations available at additional cost.

Weight 2.0 - 3.2 mg

Ambient temperature -40°C to +125°C with Irms current

Maximum part temperature +140°C (ambient + temp rise).

Storage temperature Component: -40°C to +140°C. Tape and reel packaging: -40°C to +80°C

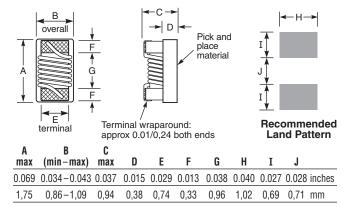
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Temperature Coefficient of Inductance (TCL) +25 to +125 ppm/°C Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)
One per billion hours / one billion hours, calculated per Telcordia SR-332

Packaging 2000 per 7" reel. Paper tape: 8 mm wide, 1 mm thick, 4 mm pocket spacing

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.



Note: Height dimension (C) is before optional solder application. For maximum height dimension including solder, add 0.006 in / 0,152 mm.





0603HP Series (1608)

Designer's Kit C406 contain 10 each of all 5% values Designer's Kit C406-2 contains 10 each of all 2% values



Part number		Inductance ²	Percent	L test freq	Q typ at	900 MHz		1.7	1.7 GHz		DCR max ⁵	Irms ⁶	Color
0603HP-2N3X	Part number ¹	(nH)	tol	(MHz)	250 MHz	L typ	Q typ ³	L typ	Q typ ³	(ĞĤz)	(Ohms)	(mA)	code ⁷
BOOSHP-SNAX E													
0603HP-3N6X													
0603HP-4NX E													
BOBSHP-4NIX E													
0603HP-5NIX E			-,-,										
0603HP-6N0X E 6.0 5.3.2 250 48 5.60 87 5.73 145 6.60 0.036 1700 Mhite 0603HP-6N0X E 6.0 5.3.2 250 49 5.92 94 6.12 154 6.00 0.036 1700 Mhite 0603HP-6N0X E 6.8 5.3.2 250 42 6.83 88 7.05 143 5.80 0.042 1400 Green 0603HP-7N0X E 7.2 5.3.2 250 48 7.25 96 7.38 139 5.40 0.052 1400 Green 0603HP-7N0X E 7.2 5.3.2 250 41 7.55 81 7.85 112 5.30 0.080 1300 Brown 0603HP-8N0X E 8.2 5.3.2 250 46 8.21 96 8.39 148 5.90 0.054 1400 Orange 0603HP-8N1X E 8.7 5.3.2 250 46 8.73 97 9.00 149 5.50 0.054 1400 Orange 0603HP-8N1X E 9.1 5.3.2 250 49 9.56 98 9.99 149 4.90 0.053 1400 Black 0603HP-9N0X E 9.5 5.3.2 250 49 10.16 90 10.64 142 4.30 0.048 1400 Orange 0603HP-1N0X E 10 5.3.2 250 49 10.16 90 10.64 142 4.30 0.048 1400 Orange 0603HP-1N1X E 11 5.3.2 250 49 10.16 90 11.82 108 4.10 0.058 1400 Gray 0603HP-1SNX E 15 5.3.2 250 48 15.41 83 17.20 124 3.60 0.078 1200 Green 0603HP-1SNX E 15 5.3.2 250 48 15.41 83 17.20 124 3.60 0.078 1200 Green 0603HP-1SNX E 15 5.3.2 250 48 15.41 83 17.20 124 3.60 0.078 1200 Green 0603HP-1SNX E 18 5.3.2 250 44 27.7 77 25.90 83 3.15 0.140 850 0.063 19.00 0.063 19.00 0.063 19.00 0.063 19.00 0.063 19.00 0.063 19.00 0.063 19.00 0.063 19.00 0.063 19.00 0.063 19.00 0.063 19.00 0.063 19.00 0.063													
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6603HP-8NTX E													_
Fig.													
6603HP-9N5X E													
6603HP-10NX													
6003HP-12NX E													
Fig. 2015 Fig. 3 Fig. 3													
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0603HP-R21X_E_ 210 5,3,2 100 48 288.0 45 — — 1.20 2.00 280 Gray 0603HP-R22X_E_ 220 5,3,2 100 47 315.0 41 — — 1.10 2.00 280 Brown 0603HP-R25X_E_ 250 5,3,2 100 45 — — — — 1.05 3.00 240 Violet 0603HP-R30X_E_ 270 5,3,2 100 46 — — — 1.05 2.25 260 Red 0603HP-R30X_E_ 300 5,3,2 100 47 — — — 0.99 2.80 220 Green 0603HP-R36X_E_ 360 5,3,2 100 47 — — — — 0.93 3.60 180 Blue		_	- , - ,										
0603HP-R22X_E_ 220 5 ,3, 2 100 47 315.0 41 — — 1.10 2.00 280 Brown 0603HP-R25X_E_ 250 5 ,3, 2 100 45 — — — — 1.05 3.00 240 Violet 0603HP-R27X_E_ 270 5 ,3, 2 100 46 — — — — 1.05 2.25 260 Red 0603HP-R30X_E_ 300 5 ,3, 2 100 47 — — — — 0.99 2.80 220 Green 0603HP-R33X_E_ 360 5 ,3, 2 100 46 — — — — 0.93 3.60 180 Blue 0603HP-R36X_E_ 360 5 ,3, 2 100 47 — — — — 0.93 4.00 170 Gray								_	_				
0603HP-R27X_E_ 270 5,3,2 100 46 — — — — — 1.05 2.25 260 Red 0603HP-R30X_E_ 300 5,3,2 100 47 — — — — 0.99 2.80 220 Green 0603HP-R33X_E_ 330 5,3,2 100 46 — — — — 0.93 3.60 180 Blue 0603HP-R36X_E_ 360 5,3,2 100 47 — — — 0.93 4.00 170 Gray	0603HP-R22X_E	220	5 ,3, 2	100	47			_	_	1.10	2.00	280	Brown
0603HP-R30X_E 300 5,3,2 100 47 — — — 0.99 2.80 220 Green 0603HP-R33X_E 330 5,3,2 100 46 — — — 0.93 3.60 180 Blue 0603HP-R36X_E 360 5,3,2 100 47 — — — 0.93 4.00 170 Gray						_	_	_	_				
0603HP-R33X_E_ 330			- , - ,										
0603HP-R36X_E_ 360 5 ,3, 2 100 47 — — — 0.93 4.00 170 Gray						_	_						
							_	_	_				
	0603HP-R39X_E	_ 390	5 ,3, 2	100	47	_	_	_	_	0.88	4.00	170	Yellow

1. When ordering, please specify tolerance, termination and packaging codes:

0603HP-R39XJEW

- Tolerance: G = 2% H = 3% J = 5% (Table shows stock tolerances in bold.)
- Termination: E = Halogen free component. RoHS compliant silver-palla
 - dium-platinum-glass frit terminations L = RoHS compliant, not halogen-free. Silver-palladium-
 - platinum-glass frit terminations. Special order: **T** = RoHS tin-silver-copper (95.5/4/0.5) or
 - S = non-RoHS tin-lead (63/37)
- Packaging: W = 7" machine-ready reel. EIA-481 punched paper tape (2000 parts per full reel).
 - **U** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter W instead.
- 2. Inductance tested at listed frequency using an Agilent/HP 4286A impedance analyzer with a Coilcraft SMD-A fixture and Coilcraft-provided correlation
- 3. Q measured using an Agilent/HP 16197 test fixture in an Agilent/HP 4291 impedance analyzer.
- SRF measured using an Agilent/HP 8722ES network analyzer and a Coilcraft SMD-D test fixture.
- 5. DCR measured on a micro-ohmmeter and a Coilcraft CCF858 test fixture.
- Current that causes a 15°C temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum
- 7. Each part is marked with a single dot. The color dots are not unique identifiers and correspond to multiple inductance values.
- 8. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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Specification subject to change without notice.

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0603HP-3N3XJLW 0603HP-72NXJLW 0603HP-5N1XJLU 0603HP-68NXJLU 0603HP-10NXGLU 0603HP-16NXGLU 0603HP-R36XGLU 0603HP-56NXJLW 0603HP-3N9XGLW 0603HP-5N1XGLW 0603HP-8N7XJLW 0603HP-11NXJLU 0603HP-43NXGLU 0603HP-R21XGLU 0603HP-R33XGLU 0603HP-16NXJLU 0603HP-8N2XGLW 0603HP-7N2XGLW 0603HP-22NXGLW 0603HP-9N1XGLW 0603HP-R11XGLW 0603HP-R20XGLW 0603HP-12NXJLW 0603HP-R10XGLU 0603HP-3N6XJLU 0603HP-R10XJLU 0603HP-R21XJLU 0603HP-R30XJLU 0603HP-R33XJLU 0603HP-39NXJLU 0603HP-43NXGLW 0603HP-10NXJLW 0603HP-33NXGLU 0603HP-8N7XJLU 0603HP-9N1XJLU 0603HP-82NXJLU 0603HP-4N3XGLW 0603HP-24NXJLW 0603HP-3N3XGLU 0603HP-6N8XGLU 0603HP-15NXGLU 0603HP-91NXGLU 0603HP-39NXGLU 0603HP-75NXGLU 0603HP-43NXJLW 0603HP-91NXJLW 0603HP-15NXJLW 0603HP-4N7XGLW 0603HP-6N8XJLW 0603HP-24NXJLU 0603HP-9N5XGLW 0603HP-R10XGLW 0603HP-5N6XJLW 0603HP-R39XGLU 0603HP-72NXJLU 0603HP-22NXGLU 0603HP-15NXJLU 0603HP-R18XJLU 0603HP-51NXGLU 0603HP-R22XGLW 0603HP-2N2XJLW 0603HP-6N0XJLW 0603HP-33NXJLW 0603HP-24NXGLU 0603HP-18NXJLU 0603HP-12NXGLU 0603HP-R20XJLU 0603HP-R36XGLW 0603HP-27NXJLW 0603HP-11NXGLW 0603HP-12NXGLW 0603HP-24NXGLW 0603HP-36NXGLW 0603HP-7N2XJLW 0603HP-39NXJLW 0603HP-6N8XGLW 0603HP-16NXJLW 0603HP-18NXJLW 0603HP-R30XGLW 0603HP-R11XJLU 0603HP-7N5XGLU 0603HP-8N7XGLU 0603HP-9N5XGLU 0603HP-3N9XGLU 0603HP-47NXJLU 0603HP-R12XGLW 0603HP-51NXJLW 0603HP-18NXGLW 0603HP-3N9XJLW 0603HP-56NXGLU 0603HP-4N7XJLU 0603HP-22NXJLU 0603HP-27NXJLU 0603HP-4N7XGLU 0603HP-R20XGLU 0603HP-R27XGLU 0603HP-3N3XJLU 0603HP-4N3XJLU 0603HP-6N0XGLW 0603HP-R15XGLW