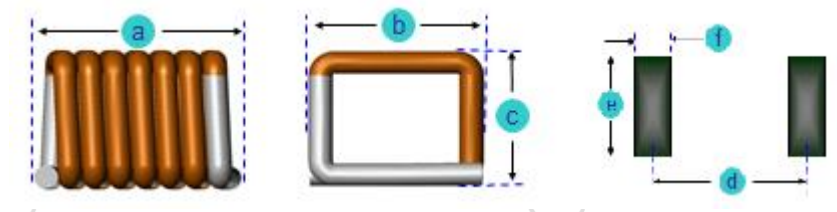


High SRF and High-Q Square Surface Mount Air Coils
Inductance: 47 ~ 82 nH
Current: 4.9 ~ 5.6 Amps

ELECTRICAL SPECIFICATIONS:

P/N	Turns	L (nH)	Tolerance	Q (min)	Test Freq (MHz)	DCR (mΩ)	SRF (GHz)	I _{RMS} (A)
LSQ1515A-47N_	6	47	J, G	230	400	6.35	1.87	4.9
LSQ1515A-68N_	8	68	J, G	230	400	8.60	2.13	5.5
LSQ1515A-82N_	9	82	J, G	230	400	9.40	1.79	5.6

DIMENSIONS: mm (inch)



P/N	a	b	c	d	e	f
LSQ1515A-47N_	4.06 (0.160)	3.56 (0.140)	3.73 (0.147)	3.56 (0.140)	4.45 (0.175)	1.78 (0.070)
LSQ1515A-68N_	5.33 (0.210)	3.56 (0.140)	3.73 (0.147)	4.83 (0.190)	4.45 (0.175)	1.78 (0.070)
LSQ1515A-82N_	5.84 (0.230)	3.56 (0.140)	3.73 (0.147)	5.33 (0.210)	4.45 (0.175)	1.78 (0.070)
(Tol.)	±0.254 (0.010)	±0.178 (0.007)	±0.178 (0.007)	Typ.	Typ.	Typ.

GENERAL INFORMATION:

LSQ1515A-xxx, “LSQ1515A” = P/N, “xxx” = Inductance “_” = Tolerance (G= ±2%, J= ± 5%)

Operating temperature: -40°C to +125°C, Storage temp. : -40°C to +85°C

Maximum Temperature Rise: 15°C (measured at 25°C ambient)

Inductance & Q measured with HP4291B Impedance Analyzer with HP16193 test fixture

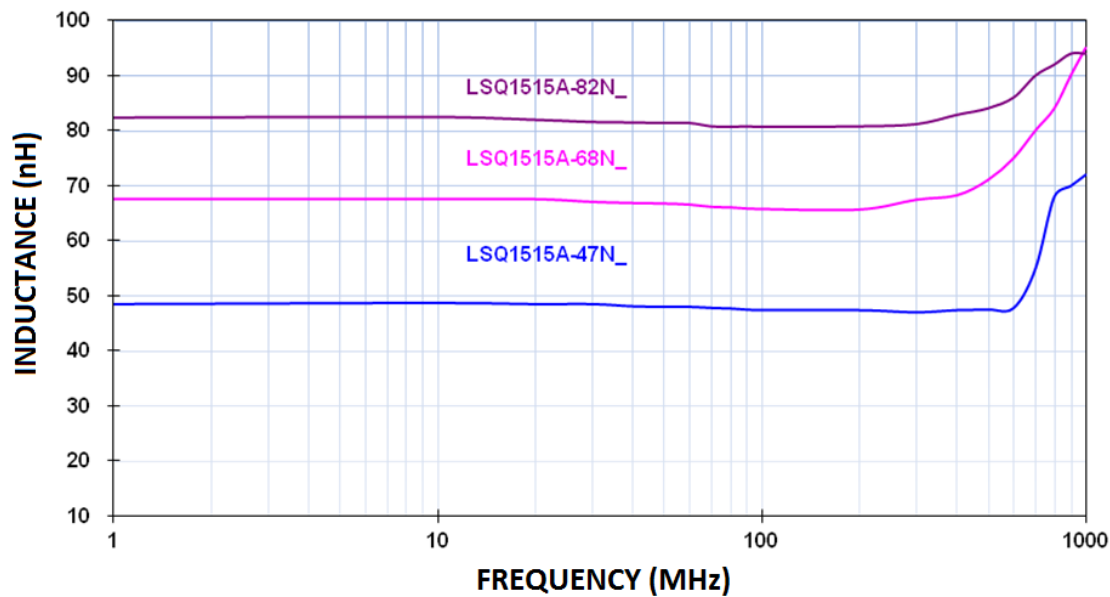
SRF measured using HP8753E Network Analyzer or equivalent

DCR measured using Chroma 16502 or equivalent

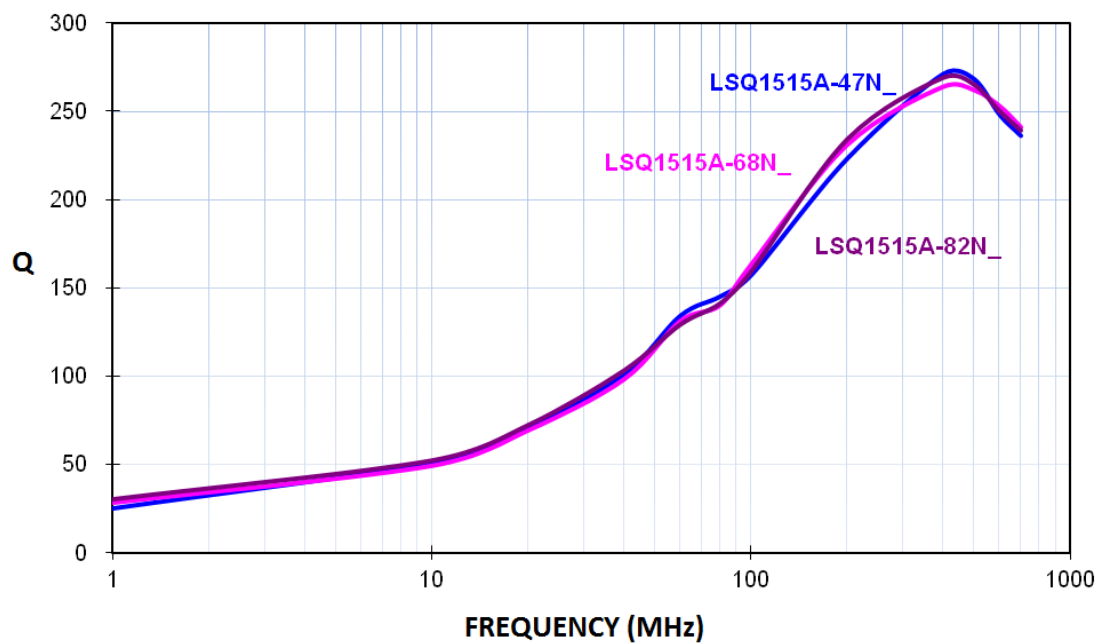
MSL: Level 1

ELECTRICAL CHARACTERISTICS:

INDUCTANCE vs. FREQUENCY

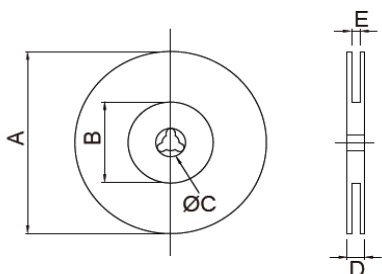


Q vs. FREQUENCY

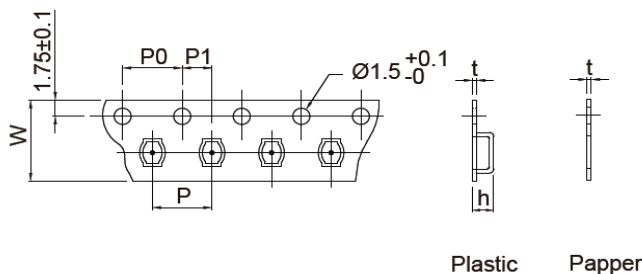


PACKAGING INFORMATION:

CARRIER TAPE REELS



TAPE DIMENSIONS (mm)



Plastic Papper

Series	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	Box	Carton
LSQ1515A	330	100	13	18.4	12.5	12	8	4	2	4.06	0.40	---	2,000	4,000	12,000

RoHS REFLOW SOLDERING PROFILE:

Typical RoHS Reflow Profile

