

9F-3 No.398, Huan Bei Rd. Chung Li City, Taoyuan 320, Taiwan

Tel: +886-3-422-8279 Fax: +886-3-422-8734

E-mail:info@coilmaster.com.tw
Web Site: www.coilmaster.com.tw

MS2520 SERIES ~ Wire Wound Ceramic Chip Inductors

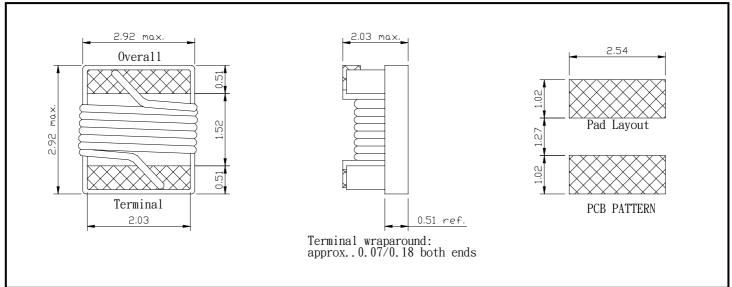


PART NUMBERING SYSTEM

MS_	2520	_	18NJ	- <u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE	LEAD FREE

SHAPES AND DIMENSIONS

UNIT: mm



FEATURES

- Inductance values from **3.3 nH to 8200 nH** (tolerances as low as 1%)
- **Exceptionally high Q** compared to non-wirewound inductors, especially at high frequencies
- Ceramic construction for highest possible self resonance (as high as 6000 MHz)
- Excellent current carrying capacity for their size
- RoHS-compliant 260°C compatible.



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (nH)	TOLERANCE	Q. MIN.	SRF (MHz) MIN.	DCR (Ω) (max)	IDC (mA) (max)
MS2520-3N3□-LF	3.3@100MHz	B,S	50@1000MHz	6000	0.06	600
MS2520-6N8⊡-LF	6.8@100MHz	K,J,G	50@1000MHz	5500	0.06	600
MS2520-8N2∐-LF	8.2@100MHz	K,J,G	50@1000MHz	5500	0.06	600
MS2520-10N□-LF	10@100MHz	K,J,G	50@1000MHz	4300	0.08	600
MS2520-12N□-LF	12@100MHz	K,J,G	60@500MHz	3600	0.08	600
MS2520-15N□-LF	15@100MHz	K,J,G	60@500MHz	2700	0.08	600
MS2520-18N□-LF	18@100MHz	K,J,G	60@350MHz	2700	0.10	600
MS2520-22N□-LF	22@100MHz	K,J,G	60@350MHz	2500	0.10	600
MS2520-27N□-LF	27@100MHz	K,J,G	60@350MHz	1800	0.10	600
MS2520-33N□-LF	33@100MHz	K,J,G	60@350MHz	1700	0.10	600
MS2520-39N□-LF	39@100MHz	K,J,G	60@350MHz	1500	0.10	600
MS2520-47N□-LF	47@100MHz	K,J,G	60@350MHz	1500	0.10	600
MS2520-56N□-LF	56@100MHz	K,J,G	60@350MHz	1350	0.12	600
MS2520-68N□-LF	68@100MHz	K,J,G	60@350MHz	1300	0.15	600
MS2520-82N□-LF	82@100MHz	K,J,G	60@350MHz	1100	0.18	600
MS2520-R10□-LF	100@100MHz	K,J,G	60@100MHz	1100	0.18	500
MS2520-R12□-LF	120@25MHz	K,J,G	50@100MHz	950	0.20	500
MS2520-R15∐-LF	150@25MHz	K,J,G	50@100MHz	880	0.22	500
MS2520-R18□-LF	180@25MHz	K,J,G	50@100MHz	800	0.33	500
MS2520-R22□-LF	220@25MHz	K,J,G	45@100MHz	730	0.45	500
MS2520-R27□-LF	270@25MHz	K,J,G	45@100MHz	650	0.75	500
MS2520-R33□-LF	330@25MHz	K,J,G	45@100MHz	570	0.90	500

TEST EQUIPMENT: HP-4286A IMPEDANCE ANALYZER

INDUTANCE TOLERANCE : $B=\pm 0.15$ nH, $S=\pm 0.3$ nH, $G=\pm 2$ %, $J=\pm 5$ %, $K=\pm 10$ %



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SPECIFICATION TABLE

RoHS Compliant

PART NUMBER	INDUCTANCE (nH)	TOLERANCE	Q. MIN.	SRF (MHz) MIN.	DCR (Ω) (max)	IDC (mA) (max)		
MS2520-R39⊡-LF	390@25MHz	K,J,G	45@100MHz	530	1.20	470		
MS2520-R47∐-LF	470@25MHz	K,J,G	45@100MHz	480	1.30	470		
MS2520-R56⊡-LF	560@25MHz	K,J,G	45@100MHz	430	1.45	400		
MS2520-R62□-LF	620@25MHz	K,J,G	45@100MHz	380	2.45	300		
MS2520-R68⊡-LF	680@25MHz	K,J,G	45@100MHz	380	2.45	400		
MS2520-R75⊡-LF	750@25MHz	K,J,G	45@100MHz	360	2.60	360		
MS2520-R82 <u></u> -LF	820@25MHz	K,J,G	45@100MHz	350	2.75	380		
MS2520-R91□-LF	910@25MHz	K,J,G	45@100MHz	330	3.25	380		
MS2520-1R0⊡-LF	1000@25MHz	K,J,G	35@50MHz	290	1.75	370		
MS2520-1R2 <u></u> -LF	1200@7.9MHz	K,J,G	35@50MHz	250	2.0	310		
MS2520-1R5 <u></u> -LF	1500@7.9MHz	K,J,G	28@50MHz	200	2.3	330		
MS2520-1R8⊡-LF	1800@7.9MHz	K,J,G	28@50MHz	160	2.6	300		
MS2520-2R2□-LF	2200@7.9MHz	K,J,G	28@50MHz	160	2.8	280		
MS2520-2R7□-LF	2700@7.9MHz	K,J,G	22@25MHz	140	3.2	290		
MS2520-3R3□-LF	3300@7.9MHz	K,J,G	22@25MHz	110	3.4	290		
MS2520-3R9□-LF	3900@7.9MHz	K,J,G	20@25MHz	100	3.6	260		
MS2520-4R7⊡-LF	4700@7.9MHz	K,J,G	20@25MHz	90	4.0	260		
MS2520-5R6⊡-LF	5600@7.9MHz	K,J	16@7.9MHz	20	4.0	240		
MS2520-6R8⊡-LF	6800@7.9MHz	K,J	18@7.9MHz	40	4.9	200		
MS2520-8R2⊡-LF	8200@7.9MHz	K,J	18@7.9MHz	25	6.0	170		

TEST EQUIPMENT:HP-4286A IMPEDANCE ANALYZER

INDUTANCE TOLERANCE : $B=\pm0.15$ nH, $S=\pm0.3$ nH, $G=\pm2\%$, $J=\pm5\%$, $K=\pm10\%$

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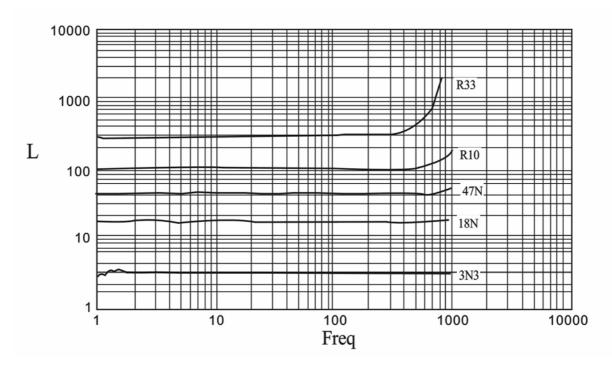
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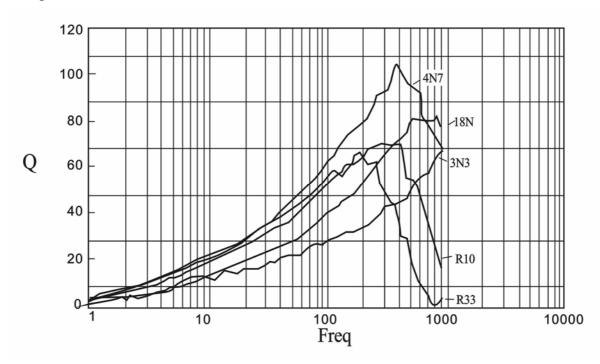
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TYPICAL ELECTRICAL CHARACTERISTICS **INDUCTANCE vs. FREQUENCY CHARACTERISTICS**



Q vs. FREQUENCY CHARACTERISTICS



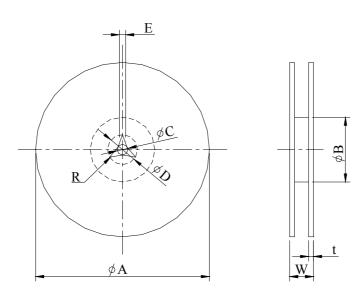
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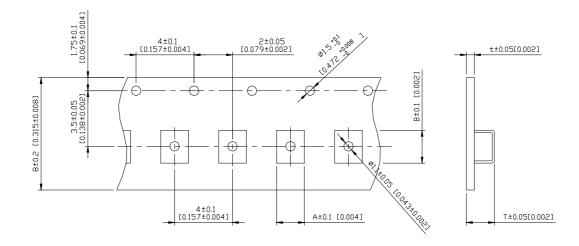
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PACKAGING SPECIFICATION



	Α	В	С	D	E	W8	W12	t	R
T(<i>φ</i> 178mm) Reel	ψ 178±2	φ 60±1	φ 13±0.8	φ 21±0.8	2	10±1.5	14.5±1.5	1.27±0.2	1
T(φ 330mm) Reel	ψ 330±2	φ 100±2	φ 13±0.8	φ 21±0.8	2	10±1.5	14.5±1.5	1.27±0.2	1



TYPE	Α	В	Т	t	T(φ 178mm)	T(φ 330mm)
MS2520	1.90	3.50	1.40	0.2	2000 pcs/reel	-