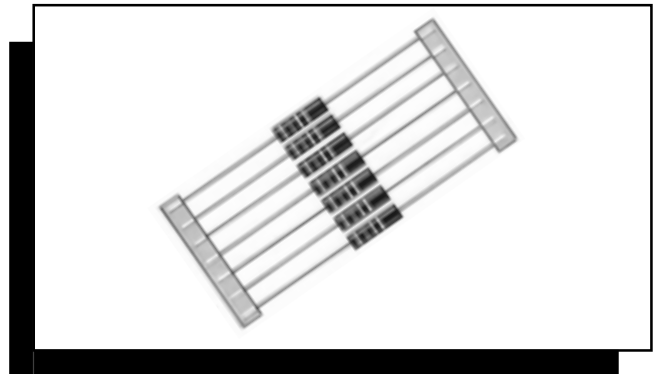


MEGGITT SIGMA
AXIAL INDUCTORS
SMD INDUCTORS
THIN FILM PRINTED INDUCTORS
POWER CHOKES IN
RADIAL AND AXIAL STYLE

RF Inductor Moulded

TYPE MSC15 SERIES



The Sigma MSC15 is a fully moulded sister to the well known SC10 and SC15 series. The characteristics, Tolerance, Q, SRF and DC resistance mirror almost the SC10/SC15. The current carrying capacity is similar although the specification is slightly derated due to the higher measuring temperature. This fully moulded and colour banded construction provides excellent environmental protection at a surprisingly attractive price.

MEGGITT SIGMA KEY FEATURES

- ATTRACTIVELY PRICED
- FULLY MOULDED CONSTRUCTION
- COLOUR BANDED CODING
- RUGGED MOULDED CONSTRUCTION
- WIDE INDUCTANCE R1 - 1000mH
- ±5% SELECTION TOL. POSSIBLE
- SPECIAL DESIGNS WELCOME.

ELECTRICAL

Construction: Phenolic LT4 Grade1 Class B
 Powdered iron & ferrite LT10 Grade 1 Class A

Max. Operating Temperature: Phenolic -55°C to +125°C
 Powdered Iron & ferrite -55°C to +105°C

Max. Temperature Rise: Phenolic 35°C
 Powdered Iron & ferrite 15°C

Ambient Temperature: 90°C

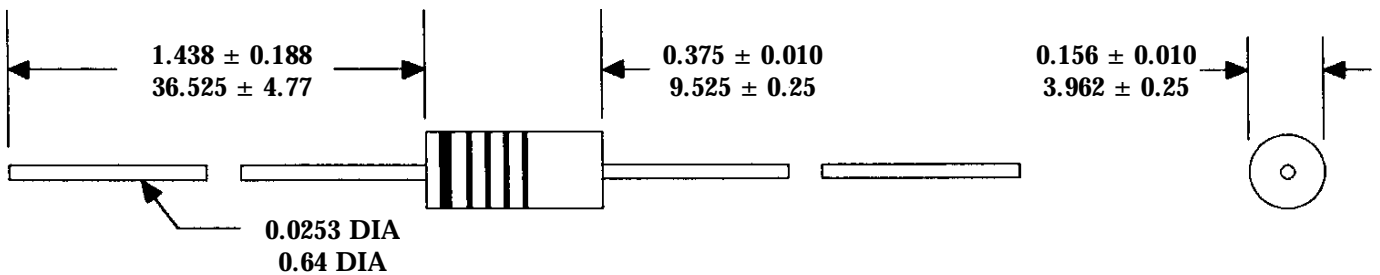
Dielectric Withstand: Sea Level 1000V. RMS

Lead Pull Strength: 2.27kg

Inductance Value Range: Phenolic R10 - 1mh
 Powdered Iron 1R1 - 27mh
 Ferrite 30mh - 1000 mh

Weight: 0.5g max.

DIMENSIONS



- Manufactured to meet BS9751 N0001 pattern A but released to commercial standard.
- Colour banded in accordance with MIL - C - 15305

All Dimensions are nominal and in mm. unless otherwise shown. Do Not Scale.

HOW TO ORDER

COMMON PART	INDUCTANCE VALUE	TOLERANCE	PACK STYLE
MSC 15 - Moulded Wound Inductor	Inductance Code See Table above	M ± 20% K ± 10% J ± 5% See Above	T - Ammo Box 500 R - Reeled

Inductance Code	Inductance mH	Q Min.	Test Freq. (L&Q) MHz	SRF (Min) MHz	DCR (Max) ohms	Rated DC Current mA at 90°C	35°C Rise
R15	0.15±20%	50	25	525	0.03	2450	
R22	0.22±20%	50	25	450	0.055	1900	
R33	0.33±20%	45	25	360	0.09	1400	
R47	0.47±20%	45	25	310	0.12	1225	
R56	0.56±10%	50	25	280	0.135	1220	
R68	0.68±10%	50	25	250	0.15	1100	
R82	0.82±10%	50	25	220	0.22	900	
1R0	1.00±10%	50	25	200	0.29	830	
1R2	1.20±10%	33	7.9	180	0.42	650	
1R5	1.50±10%	33	7.9	160	0.50	600	
1R8	1.80±10%	33	7.9	150	0.65	525	
2R2	2.20±10%	33	7.9	135	0.95	435	
2R7	2.70±10%	33	7.9	120	1.20	385	
3R3	3.30±10%	33	7.9	110	2.00	300	
3R9	3.90±10%	33	7.9	100	2.30	280	
4R7	4.70±10%	33	7.9	90	2.60	260	
5R6	5.60±10%	45	7.9	60	0.32	495	750
6R8	6.80±10%	50	7.9	55	0.50	395	600
8R2	8.20±10%	50	7.9	50	0.60	360	545
100	10.00±10%	55	7.9	45	0.90	290	445
120	12.00±10%	65	2.5	42	1.10	265	404
150	15.00±10%	65	2.5	40	1.40	240	370
180	18.00±10%	75	2.5	34	2.25	185	280
220	22.00±10%	75	2.5	30	2.50	175	265
270	27.00±10%	60	2.5	25	2.60	170	260
330	33.00±10%	65	2.5	19	3.00	165	250
360	36.00±5%	60	2.5	15.5	2.50	180	
390	39.00±5%	60	2.5	14.5	2.60	176	245
430	43.00±5%	60	2.5	13.7	2.70	172	
470	47.00±5%	55	2.5	13.0	2.75	170	240
510	51.00±5%	55	2.5	12.7	2.85	167	
560	56.00±5%	55	2.5	12.0	3.00	164	230
620	62.00±5%	55	2.5	11.5	3.15	160	
680	68.00±5%	55	2.5	11.0	3.30	156	220
750	75.00±5%	55	2.5	10.5	3.70	147	
820	82.00±5%	50	2.5	10.3	3.90	143	200
910	91.00±5%	50	2.5	10.0	4.30	136	
101	100.0±5%	50	2.5	9.5	4.50	133	185
111	110.0±5%	60	0.79	8.9	4.90	128	
121	120.0±5%	65	0.79	8.7	5.20	124	175
131	130.0±5%	65	0.79	8.5	5.45	121	
151	150.0±5%	65	0.79	8.0	6.05	114	165
161	160.0±5%	65	0.79	7.5	6.40	111	
181	180.0±5%	65	0.79	7.0	6.75	108	155
201	200.0±5%	65	0.79	6.5	7.10	106	
221	220.0±5%	65	0.79	6.2	7.45	103	145
241	240.0±5%	65	0.79	5.9	7.80	101	
271	270.0±5%	65	0.79	5.7	11.0	85	
301	300.0±5%	65	0.79	5.4	11.5	83	
331	330.0±5%	65	0.79	5.1	12.0	81	
361	360.0±5%	65	0.79	4.8	12.5	80	
391	390.0±5%	65	0.79	4.5	16.3	70	
431	430.0±5%	65	0.79	4.2	17.1	68	
471	470.0±5%	65	0.79	3.9	17.9	67	
511	510.0±5%	65	0.79	3.8	18.8	65	
561	560.0±5%	65	0.79	3.7	19.5	64	
621	620.0±5%	65	0.79	3.3	25.9	55	
681	680.0±5%	65	0.79	3.1	27.2	54	
751	750.0±5%	65	0.79	2.9	28.6	53	
821	820.0±5%	65	0.79	2.7	30.0	52	
911	910.0±5%	65	0.79	2.5	31.5	50	
102	1000.0±5%	65	0.79	2.3	33.0	49	



Meggitt Electronic Components Ltd. Ohmic House, Westmead Industrial Estate, Swindon, Wilts. SN5 7US
 Telephone:(01793)487301(Admin.) (01793)611666 (Sales) EMail:sales@megelec.co.uk Fax:(01793) 611777

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