

Type MSC60 Series

Type MSC60 Series



Tyco quality and reliability are guaranteed in this range of case moulded shielded RF inductors. Their small size make them ideal for use when space is at a premium and they are also fully protected from environmental factors by the moulded body. With a 3% max. degree of coupling, an environmental classification of 55/100/56 and values from 10 nano henries to 10 milli henries. This inductor is a natural choice for new designs.

Key Features

- **±10% Standard - other Tolerances available**
- **Operating Temperature -55°C to 105°C**
- **Max Temperature Rise +15°C**
- **Altitude Test 70,000 Feet**
- **Terminal Pull Strength 5lbs**
- **Weight 0.75g Max**
- **Dielectric Withstand 1000 Vrms**

Characteristics - Electrical

Inductance Code	Inductance ±10% (µH)	Q Min	Test Freq. (L&Q) MHz	S.R.F. (Min) MHz	DCR (Max) ohms	Rated DC Current mA @ 90°C
R10	0.10	50	25	250	0.025	1790
R12	0.12	51	25	250	0.034	1530
R15	0.15	51	25	250	0.037	1470
R18	0.18	50	25	250	0.047	1300
R22	0.22	49	25	250	0.067	1100
R27	0.27	47	25	250	0.11	855
R33	0.33	46	25	250	0.13	780
R39	0.39	44	25	250	0.18	670
R47	0.47	44	25	235	0.25	565
R56	0.56	43	25	210	0.33	490
R68	0.68	42	25	190	0.45	420
R82	0.82	40	25	180	0.59	370
1R0	1.00	44	25	140	0.07	1070
1R2	1.20	44	7.9	130	0.10	895
1R5	1.50	44	7.9	115	0.12	815
1R8	1.80	44	7.9	105	0.14	775
2R2	2.20	44	7.9	100	0.19	650
2R7	2.70	44	7.9	92	0.28	535
3R3	3.30	44	7.9	85	0.35	480
3R9	3.90	44	7.9	75	0.40	450
4R7	4.70	44	7.9	70	0.55	380
5R6	5.60	44	7.9	65	0.72	335
6R8	6.80	50	7.9	55	1.02	280
8R2	8.20	50	2.5	50	0.32	250
100	10.0	50	2.5	46	0.62	220
120	12.0	55	2.5	44	2.00	200
150	15.0	45	2.5	49	0.80	315
180	18.0	45	2.5	45	0.89	300
220	22.0	45	2.5	41	0.96	290
270	27.0	45	2.5	38	1.19	260
330	33.0	45	2.5	34	0.37	240
390	39.0	50	2.5	29	0.93	205
470	47.0	50	2.5	27	2.11	195
560	56.0	50	2.5	25	2.23	190
680	68.0	50	2.5	21	2.70	170
820	82.0	50	2.5	10.5	2.44	180
101	100	50	2.5	10.0	3.12	160
121	120	55	0.79	9.7	3.60	150
151	150	55	0.79	8.5	4.10	140
181	180	55	0.79	8.0	4.40	135
221	220	55	0.79	7.5	5.00	125
271	270	55	0.79	7.0	5.80	115
331	330	55	0.79	6.5	6.40	110
391	390	60	0.79	6.2	7.40	105
471	470	60	0.79	5.7	9.50	92
561	560	60	0.79	4.7	10.50	90
681	680	60	0.79	4.5	11.80	80
821	820	60	0.79	4.2	13.00	80
102	1000	60	0.79	3.8	17.50	70
122	1200	45	0.25	1.5	22.10	60
152	1500	45	0.25	1.2	26.50	55
182	1800	45	0.25	1.0	29.90	50
222	2200	45	0.25	0.97	33.80	50

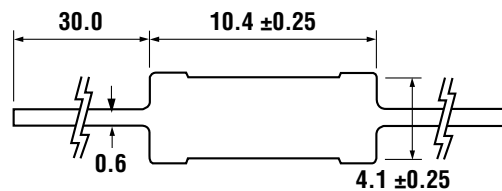
Type MSC60 Series

**Characteristics -
Electrical (continued)**

Inductance Code	Inductance $\pm 10\%$ (μH)	Q Min	Test Freq. (L&Q) MHz	S.R.F. (Min) MHz	DCR (Max) ohms	Rated DC Current mA @ 90°C
272	2700	45	0.25	0.92	47.30	40
332	3300	45	0.25	0.84	53.00	40
392	3900	45	0.25	0.80	73.80	35
472	4700	45	0.25	0.74	81.60	31
562	5600	44	0.25	0.73	98.90	28
682	6800	40	0.25	0.66	111.00	27
822	8200	40	0.25	0.54	119.00	26
103	10000	40	0.25	0.47	137.00	24

Colour coded in accordance with MIL - C - 15305

Dimensions



How to Order

MSC60	1R8	K	T
Common Part	Inductance Value	Tolerance	Pack Style
MSC60 - Axial Wound Inductor	See Tables above and previous page	K - $\pm 10\%$	T - Taped