

WCM202 Series

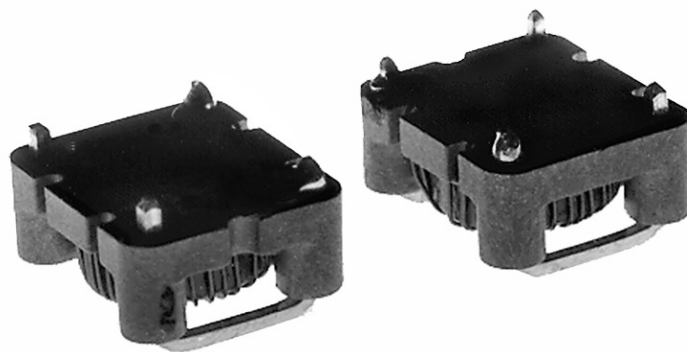
RF Inductors

Product Description

West Coast Magnetics' high Q RF inductors are designed for resonant circuit applications requiring exceptionally high Q's and tight tolerances on inductance specifications. They are mounted in a surface mount package which assures mechanical stability and excellent lead coplanarity. The package is suitable for automatic pick and place equipment.

Features and Benefits

Exceptionally high Q values at RF frequencies –™ Standard inductance tolerance +/-5% – Tighter tolerances available on request – Application specific designs also available including different inductance values and Q specifications adjusted to frequency requirements.



Engineering Data

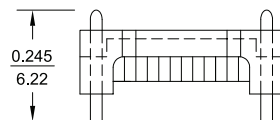
Product Code	Nominal Inductance (μH)	Q min at	Frequency (MHz)	Q min at	Frequency (MHz)	Q min at	Frequency (MHz)	Nominal DCR (mΩ)	Self Resonant Frequency (MHz) ^o
WCM202-01	0.039	90	70	100	100	100	150	18	550
WCM202-02	0.047	90	70	100	100	100	150	20	530
WCM202-03	0.056	90	70	100	100	100	150	22	510
WCM202-04	0.068	90	70	100	100	100	125	24	490
WCM202-05	0.082	90	70	100	100	100	125	28	470
WCM202-06	0.100	90	70	100	100	100	125	31	440
WCM202-07	0.120	90	70	100	100	100	125	35	400
WCM202-08	0.150	95	25	110	50	105	70	28	330
WCM202-09	0.180	100	25	110	50	105	70	31	310
WCM202-10	0.200	95	20	110	30	105	50	35	280
WCM202-11	0.270	105	20	115	30	110	50	38	230
WCM202-12	0.330	110	20	120	30	110	50	41	220



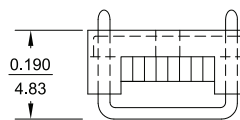
Engineering Data Continued

Product Code	Nominal Inductance (μH)	Q min at	Frequency (MHz)	Q min at	Frequency (MHz)	Q min at	Frequency (MHz)	Nominal DCR (mΩ)	Self Resonant Frequency (MHz) ^o
WCM202-13	0.390	125	10	165	20	155	30	32	200
WCM202-14	0.470	125	10	170	20	155	30	35	180
WCM202-15	0.560	125	10	175	20	155	30	38	170
WCM202-16	0.680	140	10	180	20	160	30	41	150
WCM202-17	0.820	150	10	180	20	160	30	71	140
WCM202-18	1.000	160	10	185	20	160	30	78	120
WCM202-19	1.200	165	10	190	20	160	30	82	110
WCM202-20	1.500	150	7	150	10	140	15	85	100
WCM202-21	1.800	150	7	150	10	135	15	90	90
WCM202-22	2.200	150	7	150	10	135	15	158	75
WCM202-23	2.700	150	7	150	10	135	15	181	65
WCM202-24	3.300	135	4	155	7	150	10	200	60
WCM202-25	3.900	135	4	155	7	150	10	340	55
WCM202-26	4.700	135	4	155	7	145	10	380	50
WCM202-27	5.600	135	4	145	7	145	10	410	45
WCM202-28	6.800	135	4	140	7	140	10	700	43
WCM202-29	8.200	135	4	140	7	135	10	805	38
WCM202-30	10.000	135	4	140	7	135	10	850	35

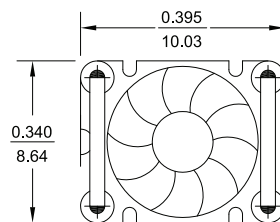
Schematics WCM202 Series



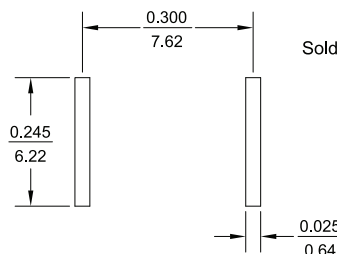
202
Side View



202
Side View



202
Bottom View



202
Footprint

Moulding: LCP (Grey)
Rating: UL94-VO
2 Terminals: Brass Alloy or Phos. Bronze 09/10 Tin Plated
Solderability: Per MIL-STD-202 Method 208

Dimensions:

Inches
mm

Note:

All materials of construction minimum Class B 130° C rated.