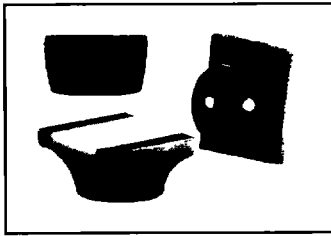


# MODEL WCS Inductors

## Surface Mount, Conformal Coated



### FEATURES

- High Q and SRF
- Non standard tolerances are also available in all types
- Maximum protection with minimum size as a result of full encapsulation in a thermo-setting mineral filled plastic jacket
- Conformally coated models offer similar electrical and mechanical properties to the molded military and industrial models
- Assured uniformity of product, a result of stringent Quality Control and Inspection procedures at every production stage

### APPLICATIONS

Thick film, high density and hybrid circuitry.  
Resonant circuits and decoupling applications.

### CONSTRUCTION

Bobbin epoxied to an alumina substrate with metallized termination pads (either palladium silver, silver/nickel barrier/gold or silver/nickel barrier/tin lead coat) wound with magnet wire. The wire is welded to the pads for ultra high reliability. The unit is conformally coated.

### MOUNTING

Solder reflow or conductive epoxy lay-down.

### TEST EQUIPMENT

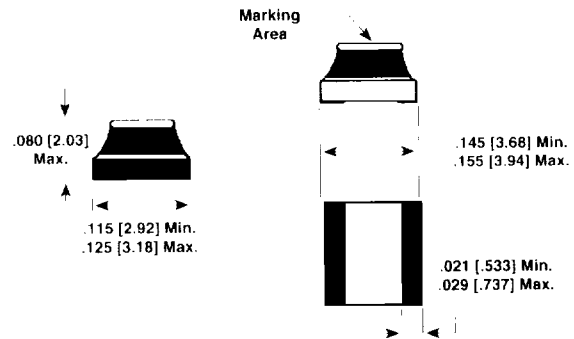
- HP4342A Q-Meter
- McGraw-Edison Model 159 G. D. O.
- Wheatstone bridge

### STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. ( $\mu$ H)	TOL.	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
WCS	.010	+10%	48	50	900	.050	650
WCS	.012	+10%	48	50	900	.055	650
WCS	.015	+10%	48	50	900	.060	650
WCS	.018	+10%	48	50	900	.065	650
WCS	.022	+10%	48	50	900	.070	650
WCS	.027	+10%	48	50	900	.075	650
WCS	.033	+10%	48	50	900	.075	650
WCS	.039	+10%	48	50	900	.080	650
WCS	.047	+10%	48	50	850	.085	650
WCS	.056	+10%	48	50	800	.088	650
WCS	.068	+10%	48	50	750	.093	650
WCS	.082	+10%	48	50	700	.095	650
WCS	.100	+10%	50	25	600	.075	650
WCS	.120	+10%	50	25	550	.075	650
WCS	.150	+10%	50	25	420	.085	650
WCS	.180	+10%	50	25	390	.100	650
WCS	.220	+10%	50	25	340	.110	640
WCS	.270	+10%	50	25	290	.120	620
WCS	.330	+10%	50	25	230	.140	590
WCS	.390	+10%	50	25	210	.160	550
WCS	.470	+10%	50	25	190	.180	520
WCS	.560	+10%	50	25	180	.200	500
WCS	.680	+10%	50	25	170	.230	460
WCS	.820	+10%	50	25	150	.260	430
WCS	1.0	+10%	50	25	140	.340	380
WCS	1.2	+10%	36	7.9	130	.420	370
WCS	1.5	+10%	36	7.9	120	.560	320
WCS	1.8	+10%	36	7.9	100	.760	280
WCS	2.2	+10%	36	7.9	98	.930	250
WCS	2.7	+10%	40	7.9	91	1.2	220
WCS	3.3	+10%	40	7.9	76	1.3	210
WCS	3.9	+10%	47	7.9	48	1.5	200
WCS	4.7	+10%	47	7.9	46	1.7	180
WCS	5.6	+10%	44	7.9	42	1.8	170
WCS	6.8	+10%	40	7.9	39	1.9	160
WCS	8.2	+10%	40	7.9	30	2.4	150
WCS	10	+10%	46	7.9	26	3.2	130
WCS	12	+10%	41	2.5	24	3.7	120
WCS	15	+10%	46	2.5	23	3.8	110
WCS	18	+10%	46	2.5	22	4.2	100
WCS	22	+10%	47	2.5	18	5.5	98
WCS	27	+10%	47	2.5	17	6.1	95
WCS	33	+10%	47	2.5	13	6.6	92
WCS	39	+10%	50	2.5	12	7.0	88
WCS	47	+10%	50	2.5	11	8.3	85
WCS	56	+10%	50	2.5	10	8.9	82
WCS	68	+10%	50	2.5	9.1	13.0	67
WCS	82	+10%	50	2.5	8.6	14.0	65
WCS	100	+10%	47	2.5	7.6	16.0	61
WCS	120	+10%	30	.790	6.8	17.0	59
WCS	150	+10%	32	.790	5.6	18.0	57
WCS	180	+10%	32	.790	4.5	22.0	52
WCS	220	+10%	32	.790	4.0	28.0	46
WCS	270	+10%	32	.790	3.8	32.0	43
WCS	330	+10%	32	.790	3.5	44.0	37
WCS	390	+10%	32	.790	3.4	48.0	35
WCS	470	+10%	28	.790	3.2	75.0	28
WCS	560	+10%	28	.790	2.8	81.0	27
WCS	680	+10%	28	.790	2.7	93.0	23
WCS	820	+10%	28	.790	2.0	112.0	21
WCS	1000	+10%	28	.790	1.7	120.0	19

### DIMENSIONAL CONFIGURATIONS

[Numbers in brackets indicate millimeters]



### PART MARKING

-- Color code dots, see Product Identification and Packaging

### HOW TO ORDER

WCS MODEL	3 TERMINATION CODE	100 $\mu$ H INDUCTANCE VALUE	$\pm 10\%$ INDUCTANCE TOLERANCE
<div style="border: 1px solid black; padding: 5px;">                     1 = Palladium silver                      2 = Silver/nickel barrier/gold                      3 = Silver/nickel barrier/tin lead                 </div>			