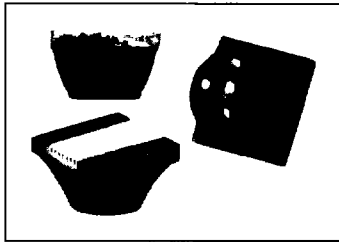


MODEL WCM Inductors

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

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (μH)	TOL.	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
WCM	.010	± 20%	60	50	2700	.060	1270
WCM	.015	± 20%	55	50	2200	.078	1110
WCM	.022	± 20%	50	50	1800	.108	950
WCM	.033	± 20%	48	50	1450	.120	900
WCM	.047	± 20%	42	50	1220	.145	820
WCM	.068	± 20%	36	50	1000	.195	705
WCM	.082	± 20%	34	50	950	.200	650
WCM	.10	± 20%	32	50	830	.230	650
WCM	.12	± 10%	30	25	500	.140	880
WCM	.15	± 10%	25	25	440	.175	745
WCM	.18	± 10%	25	25	405	.200	695
WCM	.22	± 10%	25	25	360	.220	665
WCM	.27	± 10%	25	25	330	.230	650
WCM	.33	± 10%	25	25	280	.250	645
WCM	.39	± 10%	22	25	185	.280	630
WCM	.47	± 10%	22	25	178	.310	610
WCM	.56	± 10%	22	25	163	.450	590
WCM	.68	± 10%	22	25	160	.620	435
WCM	.82	± 10%	22	25	155	.650	430
WCM	1.0	± 10%	22	25	130	.730	425
WCM	1.2	± 10%	22	7.9	115	1.00	360
WCM	1.5	± 10%	22	7.9	100	1.20	340
WCM	1.8	± 10%	22	7.9	90	1.50	325
WCM	2.2	± 10%	22	7.9	75	1.70	310
WCM	2.7	± 10%	24	7.9	68	2.00	290
WCM	3.3	± 10%	24	7.9	62	2.20	260
WCM	3.9	± 10%	24	7.9	57	2.80	250
WCM	4.7	± 10%	24	7.9	52	3.10	230
WCM	5.6	± 10%	22	7.9	47	3.30	220
WCM	6.8	± 10%	22	7.9	42	3.80	210
WCM	8.2	± 10%	22	7.9	40	5.00	195
WCM	10	± 10%	24	7.9	38	5.60	165
WCM	12	± 10%	25	2.5	35	3.80	160
WCM	15	± 10%	25	2.5	30	5.60	135
WCM	18	± 10%	25	2.5	28	5.80	130
WCM	22	± 10%	25	2.5	25	6.40	125
WCM	27	± 10%	25	2.5	22	6.90	120

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

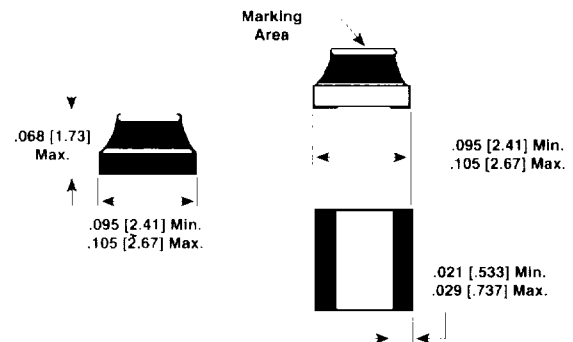
Solder reflow or conductive epoxy lay-down.

TEST EQUIPMENT

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

DIMENSIONAL CONFIGURATIONS

[Numbers in brackets indicate millimeters]



PART MARKING

Color code dots, see Product Identification and Packaging

HOW TO ORDER

WCM MODEL	1 TERMINATION CODE	1.0μH INDUCTANCE VALUE	± 10% INDUCTANCE TOLERANCE
	1 = Palladium silver 2 = Silver/nickel barrier/gold 3 = Silver/nickel barrier/tin lead		