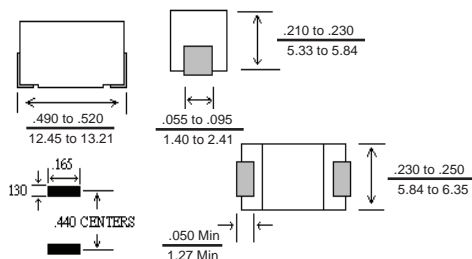


## SM305022

## Molded RF Inductor



Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



### Features

- Wide Inductance Range
- RoHS Compliant
- Tape and Reel for Auto Replacement
- Cross to API Delevan 5022 Series

### Electrical

**Inductance Range:** .10 $\mu$ H ~ 1,000 $\mu$ H

**Tolerance:** 10% over entire range

Also, available in 5%

**Test Frequency:** 25MHz (.10 $\mu$ H-1.2 $\mu$ H)

7.9MHz (1.2 $\mu$ H - 10 $\mu$ H)

.79MHz (110 $\mu$ H - 1000 $\mu$ H)

**Operating Temp:** -55°C ~ +125°C

**Current Rating:** Based on a 10% Inductance drop from initial value.

### Resistance to Solder Heat

Reflow Soldering: 260°C 10 seconds

### Test Equipment

**(L & Q):** HP4342A Q Meter

**(RDC):** CH-301 Current Source & DCR Meter

**(IDC):** CH-301 Current Source & DCR Meter

**(SRF):** HP4191A, HP4291B

### Physical

**Packaging:** 800 / reel.

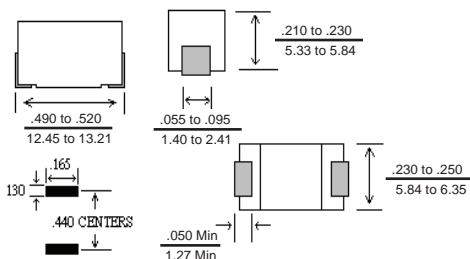
**Marking:** EIA Inductance Code.

Allied Part Number	Inductance ( $\mu$ H)	Q Min.	SRF (Mhz) Min.	DCR Max. ( $\Omega$ )	Rated I (mA)
SM305022-R10K-RC	0.10	50	520	0.02	3500
SM305022-R12K-RC	0.12	50	525	0.025	3500
SM305022-R15K-RC	0.15	50	525	0.03	3500
SM305022-R22K-RC	0.22	50	450	0.055	2580
SM305022-R33K-RC	0.33	45	360	0.09	2015
SM305022-R39K-RC	0.39	45	330	0.11	1915
SM305022-R47K-RC	0.47	45	310	0.12	1750
SM305022-R56K-RC	0.56	50	280	0.135	1645
SM305022-R68K-RC	0.68	50	250	0.15	1555
SM305022-R82K-RC	0.82	50	220	0.22	1300
SM305022-1R0K-RC	1.0	50	200	0.29	1125
SM305022-1R2K-RC	1.2	33	180	0.42	930
SM305022-1R5K-RC	1.5	33	160	0.50	855
SM305022-1R8K-RC	1.8	33	150	0.65	755
SM305022-2R2K-RC	2.2	33	135	0.95	620
SM305022-2R7K-RC	2.7	33	120	1.20	550
SM305022-3R3K-RC	3.3	33	110	2.00	430
SM305022-3R9K-RC	3.9	33	100	2.30	395
SM305022-4R7K-RC	4.7	33	90	2.60	375
SM305022-5R6K-RC	5.6	45	60	0.32	1030
SM305022-6R8K-RC	6.8	50	55	0.50	820
SM305022-8R2K-RC	8.2	50	50	0.60	748
SM305022-100K-RC	10	55	45	0.90	610
SM305022-120K-RC	12	65	42	1.10	555
SM305022-150K-RC	15	65	40	1.40	495
SM305022-180K-RC	18	75	34	2.25	388
SM305022-220K-RC	22	75	30	2.50	368
SM305022-240K-RC	24	60	26	2.50	368
SM305022-270K-RC	27	60	25	2.60	360
SM305022-300K-RC	30	65	21	2.80	348
SM305022-330K-RC	33	65	19	3.00	337
SM305022-360K-RC	36	60	15.5	2.50	368
SM305022-390K-RC	39	60	14.5	2.60	361
SM305022-430K-RC	43	60	13.7	2.70	353
SM305022-470K-RC	47	55	13.0	2.75	351
SM305022-510K-RC	50	55	12.7	2.85	344
SM305022-560K-RC	56	55	12.0	3.00	335
SM305022-620K-RC	62	55	11.5	3.15	328
SM305022-680K-RC	68	55	11.0	3.30	320
SM305022-750K-RC	75	55	10.5	3.70	302
SM305022-820K-RC	82	50	10.3	3.90	295
SM305022-910K-RC	91	50	10.0	4.30	280
SM305022-101K-RC	100	50	9.5	4.50	275
SM305022-111K-RC	110	60	8.9	4.90	262
SM305022-120K-RC	120	65	8.7	5.20	255
SM305022-131K-RC	130	65	8.5	5.45	250
SM305022-151K-RC	150	65	8.0	6.05	237
SM305022-161K-RC	160	65	7.5	6.40	230
SM305022-181K-RC	180	65	8.0	6.05	224
SM305022-201K-RC	200	65	6.5	7.10	219
SM305022-221K-RC	220	65	6.2	7.45	213
SM305022-241K-RC	240	65	5.9	7.80	210

All specifications subject to change without notice.

## SM305022

## Molded RF Inductor



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### Physical

**Packaging:** 800 / reel.

**Marking:** EIA Inductance Code.

Allied Part Number	Inductance ( $\mu$ H)	Q Min.	SRF (Mhz) Min.	DCR Max. ( $\Omega$ )	Rated I (mA)
SM305022-271K-RC	270	65	5.7	11.00	182
SM305022-301K-RC	300	65	5.4	11.50	178
SM305022-331K-RC	330	65	5.1	12.00	173
SM305022-361K-RC	360	65	4.8	12.50	171
SM305022-391K-RC	390	65	4.5	16.30	149
SM305022-431K-RC	430	65	4.2	17.10	147
SM305022-471K-RC	470	65	3.9	17.90	143
SM305022-511K-RC	500	65	3.7	18.80	139
SM305022-561K-RC	560	65	3.8	19.50	136
SM305022-621K-RC	620	65	3.3	25.90	119
SM305022-681K-RC	680	65	3.1	27.20	116
SM305022-751K-RC	750	65	2.9	28.60	112
SM305022-821K-RC	820	65	2.7	30.00	110
SM305022-911K-RC	910	65	2.5	31.50	107
SM305022-102K-RC	1000	65	2.3	33.00	105

All specifications subject to change without notice.