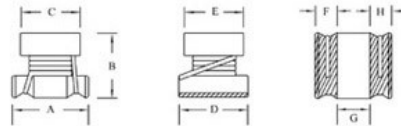


TRQ1CType
 TRQ3CType
 TRQ4CType
 TRQ6CType
 TRQ1NType
 TRQ3NType
 TRQ4NType

- * The TRQ1C are miniature SMT wire-wound open magnetic path construction inductors with the low DCR, high current capacity.
- * They are excellent for use as choke coils in DC/DC converter DC power supply circuits.
- * The comparative low cost.
- * The small dimensions (3.2 *1.6 *1.8mm) allow parallel mounting on 2.5mm centers.
- * The maximum current rating upto 970mA for 0.12μH.



Construction



Unit : (m/m)

Type	A(MAX)	B(MAX)	C(MAX)	D	E	F	G	H	I
TRQ1C	3.2 ± 0.3	1.8 ± 0.2	2.3 ± 0.2	1.6 ± 0.2	1.6 ± 0.2	0.7min.	0.7min.	0.7min.	
TRQ3C	3.2 ± 0.3	2.0 ± 0.2	2.5 ± 0.2	2.5 ± 0.2	2.5 ± 0.2	0.7min.	0.7min.	0.7min.	
TRQ4C	4.5 ± 0.3	2.6 ± 0.2	3.6 ± 0.2	3.2 ± 0.2	3.2 ± 0.2	1.0min.	1.0min.	1.0min.	
TRQ6C	5.7 ± 0.3	4.7 ± 0.3	5.0 ± 0.3	5.0 ± 0.3	5.0 ± 0.3	1.3min.	1.7min.	1.3min.	
TRQ1N	3.2 ± 0.3	1.8 ± 0.2	2.3 ± 0.2	1.6 ± 0.2	1.6 ± 0.2	0.7min.	0.7min.	0.7min.	
TRQ3N	3.2 ± 0.3	2.0 ± 0.2	2.5 ± 0.2	2.5 ± 0.2	2.5 ± 0.2	0.9 ± 0.3	1.3 ± 0.2	0.9 ± 0.3	
TRQ4N	4.5 ± 0.3	2.6 ± 0.2	3.6 ± 0.2	3.2 ± 0.2	3.2 ± 0.2	1.0min.	1.0min.	1.0min.	

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Electrical Specification

Unit:(m/m)

Parts No.	Inductance Value (μ H)	Test Freq.	Inductance Tolerance %	DC Resistance Spec ()	Self Resonant Freq. (MHz) min.	Allowable Current mA
TRQ1C-R12	0.12	1MHz	$\pm 20\%$	$0.08 \pm 40\%$	250	970
TRQ1C-R22	0.22	1MHz	$\pm 20\%$	$0.10 \pm 40\%$	250	850
TRQ1C-R47	0.47	1MHz	$\pm 20\%$	$0.15 \pm 40\%$	180	700
TRQ1C-1R0	1.0	1MHz	$\pm 20\%$	$0.28 \pm 30\%$	100	510
TRQ1C-2R2	2.2	1MHz	$\pm 20\%$	$0.41 \pm 30\%$	50	430
TRQ1C-4R7	4.7	1MHz	$\pm 20\%$	$0.65 \pm 30\%$	31	340
TRQ1C-100	10	1MHz	$\pm 10\%$	$1.3 \pm 30\%$	20	230
TRQ1C-220	22	1MHz	$\pm 10\%$	$3.0 \pm 30\%$	14	160
TRQ1C-470	47	1MHz	$\pm 10\%$	$8.0 \pm 30\%$	10	100
TRQ1C-101	100	1MHz	$\pm 10\%$	$12 \pm 30\%$	7	80

1. The operating temperature range is -25 °C to +85 °C

Electrical Specification

Unit:(m/m)

Parts No.	Inductance Value (μH)	Test Freq. (MHz)	Rated Current (mA)	DC Resistance ()	Q (min.)	Test Freq. (MHz)	Self Resonant Freq. (MHz) min.
TRQ1N-R15K	0.15±10%	1	250	0.39±40%	20	25	250
TRQ1N-R22K	0.22±10%	1	240	0.43±40%	20	25	250
TRQ1N-R33K	0.33±10%	1	230	0.45±40%	30	25	250
TRQ1N-R47K	0.47±10%	1	215	0.83±40%	30	25	200
TRQ1N-R56K	0.56±10%	1	200	0.61±40%	30	25	180
TRQ1N-R68K	0.68±10%	1	190	0.67±40%	30	25	160
TRQ1N-R82K	0.82±10%	1	185	0.73±40%	30	25	120
TRQ1N-1R0K	1.0±10%	1	175	0.49±30%	35	10	100
TRQ1N-1R2K	1.2±10%	1	165	0.9±30%	35	10	90
TRQ1N-1R5K	1.5±10%	1	155	1.0±30%	35	10	75
TRQ1N-1R8K	1.8±10%	1	150	1.6±30%	35	10	60
TRQ1N-2R2K	2.2±10%	1	140	0.7±30%	35	10	50
TRQ1N-2R7K	2.7±10%	1	135	0.55±30%	35	10	43
TRQ1N-3R3K	3.3±10%	1	130	1.4±30%	35	8	38
TRQ1N-3R9K	3.9±10%	1	125	1.5±30%	35	8	35
TRQ1N-4R7K	4.7±10%	1	120	1.7±30%	35	8	31
TRQ1N-5R6K	5.6±10%	1	115	1.8±30%	35	8	28
TRQ1N-6R8K	6.8±10%	1	110	2.0±30%	35	8	25
TRQ1N-8R2K	8.2±10%	1	105	2.2±30%	35	8	23
TRQ1N-100K	10±10%	1	100	2.5±30%	35	5	20
TRQ1N-120K	12±10%	1	95	2.7±30%	35	5	18
TRQ1N-150K	15±10%	1	90	3.0±30%	35	5	16
TRQ1N-180K	18±10%	1	85	3.4±30%	35	5	15
TRQ1N-220K	22±10%	1	85	3.1±30%	40	2.5	14
TRQ1N-270K	27±10%	1	85	3.4±30%	40	2.5	13
TRQ1N-330K	33±10%	1	80	3.8±30%	40	2.5	12
TRQ1N-390K	39±10%	1	55	7.2±30%	40	2.5	11
TRQ1N-470K	47±10%	1	55	8.0±30%	40	2.5	10
TRQ1N-560K	56±10%	1	50	8.9±30%	40	2.5	9
TRQ1N-680K	68±10%	1	50	9.9±30%	40	2.5	8.5
TRQ1N-820K	82±10%	1	45	11±30%	40	2.5	7.5
TRQ1N-101K	100±10%	1	45	12±30%	40	2.5	7

The operating temperature range is -25 °C to +85 °C

Electrical Specification

Unit:(m/m)

Parts No.	Inductance Value (μ H)	Test Freq.	Inductance Tolerance %	DC Resistance Spec ()	Self Resonant Freq. (MHz) min.	Allowable Current mA
TRQ3C-1R0	1.0	1MHz	$\pm 20\%$	$0.06 \pm 30\%$	96	800
TRQ3C-2R2	2.2	1MHz	$\pm 20\%$	$0.13 \pm 30\%$	64	600
TRQ3C-4R7	4.7	1MHz	$\pm 20\%$	$0.20 \pm 30\%$	43	450
TRQ3C-100	10	1MHz	$\pm 10\%$	$0.44 \pm 30\%$	26	300
TRQ3C-220	22	1MHz	$\pm 10\%$	$0.71 \pm 30\%$	19	250
TRQ3C-470	47	1MHz	$\pm 10\%$	$1.30 \pm 30\%$	15	170
TRQ3C-101	100	1MHz	$\pm 10\%$	$3.50 \pm 30\%$	10	100
TRQ3C-221	220	1MHz	$\pm 10\%$	$8.40 \pm 30\%$	6.8	70
TRQ3C-331	330	1MHz	$\pm 10\%$	$10.0 \pm 30\%$	5.6	60
TRQ3C-391	390	1MHz	$\pm 10\%$	$17.0 \pm 30\%$	5.0	60
TRQ3C-471	470	1KHz	$\pm 10\%$	$19.0 \pm 30\%$	5.0	60
TRQ3C-561	560	1KHz	$\pm 10\%$	$22.0 \pm 30\%$	5.0	60

1. The operating temperature range is $-25\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$

Electrical Specification

Unit:(m/m)

Parts No.	Inductance Value (μH)	Test Freq.	Rated Current (mA)	DC Resistance ()	Q (min.)	Test Freq.	Self Resonant Freq. (MHz) min.
TRQ3N-1R0M	1.0±20%	1MHz	445	0.5max.	20	1MHz	100
TRQ3N-1R2M	1.2±20%	1MHz	425	0.6max.	20	1MHz	100
TRQ3N-1R5K	1.5±10%	1MHz	400	0.6max.	20	1MHz	75
TRQ3N-1R8K	1.8±10%	1MHz	390	0.7max.	20	1MHz	60
TRQ3N-2R2K	2.2±10%	1MHz	370	0.8max.	20	1MHz	50
TRQ3N-2R7K	2.7±10%	1MHz	320	0.9max.	20	1MHz	43
TRQ3N-3R3K	3.3±10%	1MHz	300	1.0max.	20	1MHz	38
TRQ3N-3R9K	3.9±10%	1MHz	290	1.1max.	20	1MHz	35
TRQ3N-4R7K	4.7±10%	1MHz	270	1.2max.	20	1MHz	31
TRQ3N-5R6K	5.6±10%	1MHz	250	1.3max.	20	1MHz	28
TRQ3N-6R8K	6.8±10%	1MHz	240	1.5max.	20	1MHz	25
TRQ3N-8R2K	8.2±10%	1MHz	225	1.6max.	20	1MHz	23
TRQ3N-100K	10±10%	1MHz	190	1.8max.	35	1MHz	20
TRQ3N-120K	12±10%	1MHz	180	2.0max.	35	1MHz	18
TRQ3N-150K	15±10%	1MHz	170	2.2max.	35	1MHz	16
TRQ3N-180K	18±10%	1MHz	165	2.5max.	35	1MHz	15
TRQ3N-220K	22±10%	1MHz	150	2.8max.	35	1MHz	14
TRQ3N-270K	27±10%	1MHz	125	3.1max.	35	1MHz	13
TRQ3N-330K	33±10%	1MHz	115	3.5max.	40	1MHz	12
TRQ3N-390K	39±10%	1MHz	110	3.9max.	40	1MHz	11
TRQ3N-470K	47±10%	1MHz	100	4.3max.	40	1MHz	11
TRQ3N-560K	56±10%	1MHz	85	4.9max.	40	1MHz	10
TRQ3N-680K	68±10%	1MHz	80	5.5max.	40	1MHz	9
TRQ3N-820K	82±10%	1MHz	70	6.2max.	40	1MHz	8.5
TRQ3N-101K	100±10%	1MHz	80	7.0max.	40	796KHz	8
TRQ3N-121K	120±10%	1MHz	75	8.0max.	40	796KHz	7.5
TRQ3N-151K	150±10%	1MHz	70	9.3max.	40	796KHz	7
TRQ3N-181K	180±10%	1MHz	65	10.2max.	40	796KHz	6
TRQ3N-221K	220±10%	1MHz	65	11.8max.	40	796KHz	5.5
TRQ3N-271K	270±10%	1MHz	65	12.5max.	40	796KHz	5
TRQ3N-331K	330±10%	1MHz	65	13.0max.	40	796KHz	5
TRQ3N-391K	390±10%	1MHz	50	22.0max.	50	796KHz	5
TRQ3N-471K	470±10%	1KHz	45	25.0max.	50	796KHz	5
TRQ3N-561K	560±10%	1KHz	40	28.0max.	50	796KHz	5

The operating temperature range is -25 °C to +85 °C

Electrical Specification

Unit:(m/m)

Parts No.	Inductance Value (μH)	Test Freq.	Inductance Tolerance %	DC Resistance Spec ()	Self Resonant Freq. (MHz) min.	Allowable Current mA
TRQ4C-1R0	1.0	1MHz	±20%	0.08max.	100	1080
TRQ4C-1R5	1.5	1MHz	±20%	0.09max.	85	1000
TRQ4C-2R2	2.2	1MHz	±20%	0.11max.	60	900
TRQ4C-3R3	3.3	1MHz	±20%	0.13max.	47	800
TRQ4C-4R7	4.7	1MHz	±20%	0.15max.	35	750
TRQ4C-6R8	6.8	1MHz	±20%	0.20max.	30	720
TRQ4C-100	10	1MHz	±10%	0.24max.	23	650
TRQ4C-150	15	1MHz	±10%	0.32max.	20	570
TRQ4C-220	22	1MHz	±10%	0.60max.	15	420
TRQ4C-330	33	1MHz	±10%	1.00max.	12	310
TRQ4C-470	47	1MHz	±10%	1.10max.	10	280
TRQ4C-680	68	1MHz	±10%	1.70max.	8.4	220
TRQ4C-101	100	1MHz	±10%	2.20max.	6.8	190
TRQ4C-151	150	1MHz	±10%	3.50max.	5.5	130
TRQ4C-221	220	1MHz	±10%	4.00max.	4.5	110
TRQ4C-331	330	1MHz	±10%	6.80max.	3.6	100
TRQ4C-471	470	1KHz	±10%	8.50max.	3.0	90

1. The operating temperature range is -25 °C to +85 °C

Electrical Specification

Unit:(m/m)

Parts No.	Inductance Value (μH)	Test Freq.	Rated Current (mA)	DC Resistance ()	Q (min.)	Test Freq.	Self Resonant Freq. (MHz) min.
TRQ4N-1R0M	1.0±20%	1MHz	500	0.2max.	20	1MHz	120
TRQ4N-1R2M	1.2±20%	1MHz	500	0.2max.	20	1MHz	100
TRQ4N-1R5M	1.5±20%	1MHz	500	0.3max.	20	1MHz	85
TRQ4N-1R8M	1.8±20%	1MHz	500	0.3max.	20	1MHz	75
TRQ4N-2R2M	2.2±20%	1MHz	500	0.3max.	20	1MHz	62
TRQ4N-2R7M	2.7±20%	1MHz	500	0.32max.	20	1MHz	53
TRQ4N-3R3M	3.3±20%	1MHz	500	0.35max.	20	1MHz	47
TRQ4N-3R9M	3.9±20%	1MHz	500	0.38max.	20	1MHz	41
TRQ4N-4R7K	4.7±10%	1MHz	500	0.40max.	30	1MHz	38
TRQ4N-5R6K	5.6±10%	1MHz	500	0.47max.	30	1MHz	33
TRQ4N-6R8K	6.8±10%	1MHz	450	0.50max.	30	1MHz	31
TRQ4N-8R2K	8.2±10%	1MHz	450	0.56max.	30	1MHz	27
TRQ4N-100K	10±10%	1MHz	400	0.56max.	35	1MHz	23
TRQ4N-120K	12±10%	1MHz	380	0.62max.	35	1MHz	21
TRQ4N-150K	15±10%	1MHz	360	0.73max.	35	1MHz	19
TRQ4N-180K	18±10%	1MHz	340	0.82max.	35	1MHz	17
TRQ4N-220K	22±10%	1MHz	320	0.94max.	35	1MHz	15
TRQ4N-270K	27±10%	1MHz	300	1.1max.	35	1MHz	14
TRQ4N-330K	33±10%	1MHz	270	1.2max.	35	1MHz	12
TRQ4N-390K	39±10%	1MHz	240	1.4max.	35	1MHz	11
TRQ4N-470K	47±10%	1MHz	220	1.5max.	35	1MHz	10
TRQ4N-560K	56±10%	1MHz	200	1.7max.	35	1MHz	9.3
TRQ4N-680K	68±10%	1MHz	180	1.9max.	35	1MHz	8.4
TRQ4N-820K	82±10%	1MHz	170	2.2max.	35	1MHz	7.5
TRQ4N-101K	100±10%	1MHz	160	2.5max.	40	796KHz	6.8
TRQ4N-121K	120±10%	1MHz	150	3.0max.	40	796KHz	6.2
TRQ4N-151K	150±10%	1MHz	130	3.7max.	40	796KHz	5.5
TRQ4N-181K	180±10%	1MHz	120	4.5max.	40	796KHz	5
TRQ4N-221K	220±10%	1MHz	110	5.4max.	40	796KHz	4.5
TRQ4N-271K	270±10%	1MHz	100	6.8max.	40	796KHz	4
TRQ4N-331K	330±10%	1MHz	95	8.2max.	40	796KHz	3.6
TRQ4N-391K	390±10%	1MHz	90	9.7max.	40	796KHz	3.3
TRQ4N-471K	470±10%	1KHz	80	11.8max.	40	796KHz	3
TRQ4N-561K	560±10%	1KHz	70	14.5max.	40	796KHz	2.7
TRQ4N-681K	680±10%	1KHz	65	17.0max.	40	796KHz	2.5
TRQ4N-821K	820±10%	1KHz	60	20.5max.	40	796KHz	2.2
TRQ4N-102K	1000±10%	1KHz	50	25.0max.	40	252KHz	2
TRQ4N-122K	1200±10%	1KHz	45	30.0max.	40	252KHz	1.8
TRQ4N-152K	1500±10%	1KHz	40	37.0max.	40	252KHz	1.6
TRQ4N-182K	1800±10%	1KHz	35	45.0max.	40	252KHz	1.5
TRQ4N-222K	2200±10%	1KHz	30	50.0max.	40	252KHz	1.3

The operating temperature range is -25 °C to +85 °C

Electrical Specification

Unit:(m/m)

Parts No.	Inductance Value (μH)	Test Freq.	Inductance Tolerance %	DC Resistance Spec ()±40%	Self Resonant Freq. (MHz) min.	Allowable Current mA
TRQ6CR12	0.12	1MHz	±20%	0.007	450	6.0
TRQ6CR27	0.27	1MHz	±20%	0.010	300	5.3
TRQ6CR47	0.47	1MHz	±20%	0.013	200	4.8
TRQ6C1R0	1.0	1MHz	±20%	0.019	150	4.0
TRQ6C1R5	1.5	1MHz	±20%	0.022	110	3.7
TRQ6C2R2	2.2	1MHz	±20%	0.029	80	3.2
TRQ6C3R3	3.3	1MHz	±20%	0.036	40	2.9
TRQ6C4R7	4.7	1MHz	±20%	0.041	30	2.7
TRQ6C6R8	6.8	1MHz	±20%	0.074	25	2.0
TRQ6C100	10	1MHz	±20%	0.093	20	1.7
TRQ6C150	15	1MHz	±20%	0.15	17	1.4
TRQ6C220	22	1MHz	±20%	0.19	15	1.2
TRQ6C330	33	1MHz	±20%	0.32	12	0.9
TRQ6C470	47	1MHz	±20%	0.40	10	0.8
TRQ6C680	68	1MHz	±20%	0.67	7.6	0.64
TRQ6C101	100	100KHz	±20%	0.86	6.5	0.56
TRQ6C151	150	100KHz	±20%	1.90	5.0	0.42
TRQ6C221	220	100KHz	±20%	2.40	4.0	0.32
TRQ6C331	330	100KHz	±20%	4.40	3.1	0.27
TRQ6C471	470	100KHz	±20%	5.40	2.4	0.24
TRQ6C681	680	100KHz	±20%	8.10	1.9	0.19
TRQ6C102	1000	10KHz	±20%	10.30	1.7	0.15
TRQ6C222	2200	10KHz	±20%	21.50	1.2	0.10
TRQ6C472	4700	10KHz	±20%	43.60	0.8	0.07
TRQ6C103	10000	10KHz	±20%	100.0	0.5	0.05

The operating temperature range is -25 °C to +85 °C