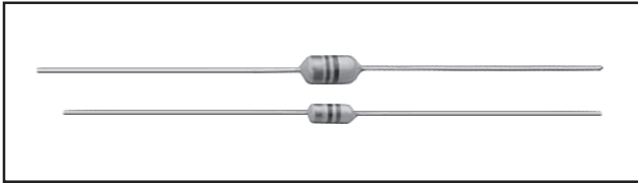




Inductors
Epoxy Conformal Coated
Uniform Roll Coated



ELECTRICAL SPECIFICATIONS

Inductance Tolerance: ± 5%, ± 10%, ± 20%.
Other tolerances available on request.

Insulation Resistance: 1000 Megohm minimum per MIL-STD-202, Method 302, Test Condition B.

Operating Temperature Range: - 55°C to + 105°C.

MATERIAL SPECIFICATIONS

Coating: Epoxy-uniform roll coated.

Lead: Tinned copper.

Core: Ferrite.

MECHANICAL SPECIFICATIONS

Terminal Strength: 5 pounds pull per MIL-STD-202, Method 211, Test Condition A.

Weight: IRF-1 = .3 gram maximum.
IRF-3 = .6 gram maximum.

TEST EQUIPMENT*

- H/P 4342A Q-Meter.
- Measurements Corporation Megacycle Meter, Model 59.
- Wheatstone bridge.

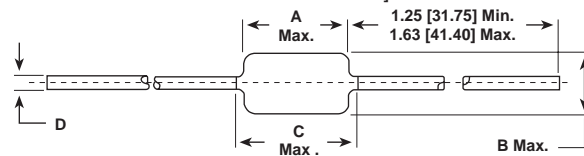
*Test procedures per MIL-C-15305.

FEATURES

- Flame-retardant coating and color band identification.
- Uniform coating is excellent for automatic insertion.
- Available in bulk, ammo and reel pack per EIA RS-296.
- Superior electrical specifications high Q and self resonant frequency, low DC resistance, high rated DC current.

DIMENSIONAL CONFIGURATIONS

[Numbers in brackets indicate millimeters]



MODEL	A (Max.)	B (Max.)	C (Max.)	D
IRF-1	.260 [6.60]	.120 [3.05]	.330 [8.38]	.0200 ± .0015 [.508 ± .038]
IRF-3	.385 [9.78]	.165 [4.19]	.410 [10.41]	.025 ± .002 [.635 ± .051]

ENVIRONMENTAL PERFORMANCE

TEST	CONDITIONS	SPECIFICATIONS
Flammability	—	MIL-STD-202, Method 111
Overload	—	MIL-C-15305
Resistance to Soldering Heat	Test Condition A	MIL-STD-202, Method 210
Resistance to Solvents	—	MIL-STD-202, Method 215

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	INDUCTANCE (μH)	TOLERANCE	Q MINIMUM	TEST FREQUENCY L & Q (MHz)	SELF-RESONANT* FREQ. MIN. (MHz)	DCR MAXIMUM (Ohms)	RATED DC** CURRENT (mA)
IRF-1	.10	± 20%	40	25.0	400.0	.06	1350
IRF-1	.12	± 20%	40	25.0	400.0	.06	1270
IRF-1	.15	± 20%	40	25.0	400.0	.07	1200
IRF-1	.18	± 20%	40	25.0	400.0	.075	1155
IRF-1	.22	± 20%	40	25.0	380.0	.075	1150
IRF-1	.27	± 20%	40	25.0	360.0	.08	1110
IRF-1	.33	± 20%	40	25.0	350.0	.08	1110
IRF-1	.39	± 20%	40	25.0	320.0	.09	1000
IRF-1	.47	± 20%	40	25.0	300.0	.10	1000
IRF-1	.56	± 20%	40	25.0	280.0	.11	950
IRF-1	.68	± 20%	40	25.0	250.0	.12	900
IRF-1	.82	± 20%	40	25.0	200.0	.12	900
IRF-1	1.0	± 10%	50	25.0	180.0	.15	815
IRF-1	1.2	± 10%	50	7.9	165.0	.18	740
IRF-1	1.5	± 10%	50	7.9	150.0	.20	700
IRF-1	1.8	± 10%	50	7.9	125.0	.23	655
IRF-1	2.2	± 10%	50	7.9	115.0	.25	630
IRF-1	2.7	± 10%	50	7.9	100.0	.28	595
IRF-1	3.3	± 10%	50	7.9	90.0	.30	575
IRF-1	3.9	± 10%	50	7.9	80.0	.32	555
IRF-1	4.7	± 10%	50	7.9	75.0	.35	530
IRF-1	5.6	± 10%	50	7.9	65.0	.40	500
IRF-1	6.8	± 10%	50	7.9	60.0	.45	470
IRF-1	8.2	± 10%	50	7.9	55.0	.55	425
IRF-1	10.0	± 10%	50	7.9	50.0	.72	370

*Measured with full length lead. **Rated DC current based on a temperature rise of 15°C at + 90°C ambient.



STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	INDUCTANCE (μ H)	TOLERANCE	Q MINIMUM	TEST FREQUENCY L & Q (MHz)	SELF- RESONANT* FREQ. MIN. (MHz)	DCR MAXIMUM (Ohms)	RATED DC** CURRENT (mA)
IRF-1	12.0	$\pm 10\%$	50	2.5	40.0	.80	350
IRF-1	15.0	$\pm 10\%$	50	2.5	35.0	.88	335
IRF-1	18.0	$\pm 10\%$	50	2.5	30.0	1.0	315
IRF-1	22.0	$\pm 10\%$	50	2.5	25.0	1.2	285
IRF-1	27.0	$\pm 10\%$	50	2.5	20.0	1.35	270
IRF-1	33.0	$\pm 10\%$	50	2.5	24.0	1.5	255
IRF-1	39.0	$\pm 10\%$	50	2.5	22.0	1.7	240
IRF-1	47.0	$\pm 10\%$	60	2.5	20.0	2.3	205
IRF-1	56.0	$\pm 10\%$	60	2.5	18.0	2.6	195
IRF-1	68.0	$\pm 10\%$	60	2.5	15.0	2.9	185
IRF-1	82.0	$\pm 10\%$	60	2.5	14.0	3.2	175
IRF-1	100.0	$\pm 10\%$	60	2.5	13.0	3.5	165
IRF-1	120.0	$\pm 10\%$	60	.79	5.40	3.8	160
IRF-1	150.0	$\pm 10\%$	60	.79	4.75	4.4	150
IRF-1	180.0	$\pm 10\%$	60	.79	4.35	5.0	140
IRF-1	220.0	$\pm 10\%$	60	.79	4.0	5.7	130
IRF-1	270.0	$\pm 10\%$	60	.79	3.70	6.5	120
IRF-1	330.0	$\pm 10\%$	60	.79	3.40	9.5	100
IRF-1	390.0	$\pm 10\%$	60	.79	2.80	10.5	95
IRF-1	470.0	$\pm 10\%$	60	.79	2.55	11.6	90
IRF-1	560.0	$\pm 10\%$	60	.79	2.35	13.0	85
IRF-1	680.0	$\pm 10\%$	60	.79	2.0	18.0	75
IRF-1	820.0	$\pm 10\%$	60	.79	1.85	23.0	65
IRF-1	1000.0	$\pm 10\%$	60	.79	1.40	26.0	60
IRF-3	.22	$\pm 20\%$	55	25.0	380.0	.10	1400
IRF-3	.27	$\pm 20\%$	55	25.0	340.0	.11	1320
IRF-3	.33	$\pm 20\%$	55	25.0	300.0	.12	1280
IRF-3	.39	$\pm 20\%$	55	25.0	280.0	.13	1200
IRF-3	.47	$\pm 20\%$	55	25.0	250.0	.14	1150
IRF-3	.56	$\pm 20\%$	55	25.0	230.0	.15	1100
IRF-3	.68	$\pm 20\%$	55	25.0	210.0	.16	1030
IRF-3	.82	$\pm 20\%$	55	25.0	172.0	.17	980
IRF-3	1.0	$\pm 10\%$	55	25.0	157.0	.19	920
IRF-3	1.2	$\pm 10\%$	50	7.9	144.0	.21	880
IRF-3	1.5	$\pm 10\%$	50	7.9	131.0	.23	830
IRF-3	1.8	$\pm 10\%$	55	7.9	121.0	.25	790
IRF-3	2.2	$\pm 10\%$	55	7.9	110.0	.28	750
IRF-3	2.7	$\pm 10\%$	60	7.9	100.0	.30	720
IRF-3	3.3	$\pm 10\%$	65	7.9	94.0	.34	670
IRF-3	3.9	$\pm 10\%$	65	7.9	86.0	.37	640
IRF-3	4.7	$\pm 10\%$	70	7.9	80.0	.39	620
IRF-3	5.6	$\pm 10\%$	70	7.9	74.0	.43	590
IRF-3	6.8	$\pm 10\%$	75	7.9	68.0	.48	550
IRF-3	8.2	$\pm 10\%$	80	7.9	53.0	.52	530
IRF-3	10.0	$\pm 10\%$	85	7.9	45.0	.58	500
IRF-3	12.0	$\pm 10\%$	75	2.5	42.0	.63	480
IRF-3	15.0	$\pm 10\%$	70	2.5	40.0	.72	460
IRF-3	18.0	$\pm 10\%$	65	2.5	34.0	.77	430
IRF-3	22.0	$\pm 10\%$	60	2.5	30.0	.84	410
IRF-3	27.0	$\pm 10\%$	55	2.5	25.0	.94	390
IRF-3	33.0	$\pm 10\%$	55	2.5	19.0	1.03	370
IRF-3	39.0	$\pm 10\%$	50	2.5	14.5	1.12	350
IRF-3	47.0	$\pm 10\%$	45	2.5	13.0	1.22	340
IRF-3	56.0	$\pm 10\%$	40	2.5	12.0	1.34	320
IRF-3	68.0	$\pm 10\%$	40	2.5	11.0	1.47	305
IRF-3	82.0	$\pm 10\%$	35	2.5	10.3	1.62	290
IRF-3	100.0	$\pm 10\%$	30	2.5	9.5	1.8	275
IRF-3	120.0	$\pm 10\%$	70	.79	3.8	3.7	185
IRF-3	150.0	$\pm 10\%$	70	.79	3.5	4.2	175
IRF-3	180.0	$\pm 10\%$	70	.79	3.3	4.6	165
IRF-3	220.0	$\pm 10\%$	70	.79	3.0	5.1	155
IRF-3	270.0	$\pm 10\%$	70	.79	2.8	5.8	145
IRF-3	330.0	$\pm 10\%$	70	.79	2.6	6.4	137
IRF-3	390.0	$\pm 10\%$	65	.79	2.4	7.0	133
IRF-3	470.0	$\pm 10\%$	65	.79	2.25	7.7	126
IRF-3	560.0	$\pm 10\%$	65	.79	2.1	8.5	120
IRF-3	680.0	$\pm 10\%$	65	.79	1.95	9.4	113
IRF-3	820.0	$\pm 10\%$	65	.79	1.85	10.5	105
IRF-3	1000.0	$\pm 10\%$	65	.79	1.4	14.0	100

*Measured with full length lead. **Rated DC current based on a temperature rise of 15°C at + 90°C ambient.

HOW TO ORDER		
IRF-1	10	$\pm 10\%$
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE