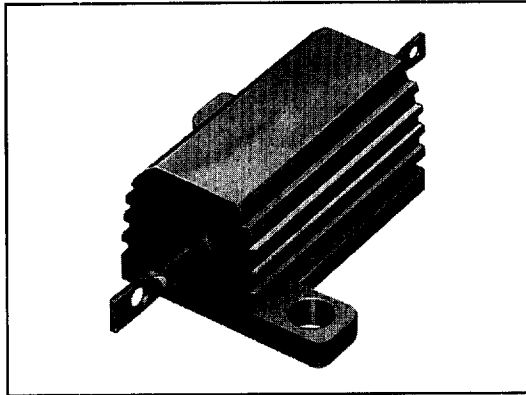


MODELS ERH and ENH Wirewound Resistors

Military/Established Reliability,
MIL-R-39009 Qualified, Type RER, R Level



FEATURES

- Aluminum housed
- Standard (ERH) or non-inductive (ENH) winding
- Molded construction gives complete environmental protection
- Complete welded construction
- Mounts on chassis to utilize heat sink effect
- High stability at conventional power ratings
- Flat marking surface for easy identification
- Covered by U.S. Patents 201,884, 3,201,855 and 3,206,704
- 100% power stabilization and screening tests

STANDARD ELECTRICAL SPECIFICATIONS

DALE MODEL	MIL-R-39009 TYPE	POWER RATING (Watts)		MILITARY RESISTANCE RANGE (Ohms) 1%	MAX. WORKING VOLTAGE	MAX. WEIGHT (Grams)	MIL-R-39009 STANDARD TEMPERATURE COEFFICIENT VALUE RANGES (Ohms)		
		MOUNTED	FREE AIR				± 100PPM	± 50PPM	± 30PPM
ENH-5	RER40	5	3	1-1.65k	128.9	3.3	—	1-19.9	20-1.65k
ENH-10	RER45	10	6	1-2.8k	190.0	8.8	—	1-19.9	20-2.8k
ENH-25	RER50	20	8	1-6.04k	390.0	16.5	—	1-19.9	20-6.04k
ENH-50	RER55	30	10	1-19.6k	890.0	35.0	—	1-19.9	20-19.6k
ERH-5	RER60	5	3	0.10-3.32k	160.0	3.0	.1-.99	1-19.9	20-3.32k
ERH-10	RER65	10	6	0.10-5.62k	265.0	6.0	.1-.99	1-19.9	20-5.62k
ERH-25	RER70	20	8	0.10-12.1k	550.0	13.0	.1-.99	1-19.9	20-12.1k
ERH-50	RER75	30	10	0.10-39.2k	1250.0	28.0	.1-.99	1-19.9	20-39.2k

NOTE: All resistance ranges shown conform to military specifications unless otherwise indicated.

ELECTRICAL SPECIFICATIONS

Tolerance: Only military specification tolerance available is $\pm 1\%$.

Dielectric Strength: 1000 VAC on 5, 10 and 25 watt units. 2,000 VAC on 30 watt units.

Insulation Resistance: 10,000 Megohm minimum dry, 1,000 Megohm minimum after moisture test.

MECHANICAL SPECIFICATIONS

Terminal Strength: 5 lb. pull test on 5 and 10 watt units. 10 lb. pull test on 20 and 30 watt units.

Solderability: Satisfactory when tested in accordance with Method 208 of MIL-STD-202.

MATERIAL SPECIFICATIONS

Core: Ceramic: Steatite or alumina, depending on physical size.

Element: Copper-nickel alloy or nickel-chrome alloy, depending on resistance value.

End Caps: Stainless steel.

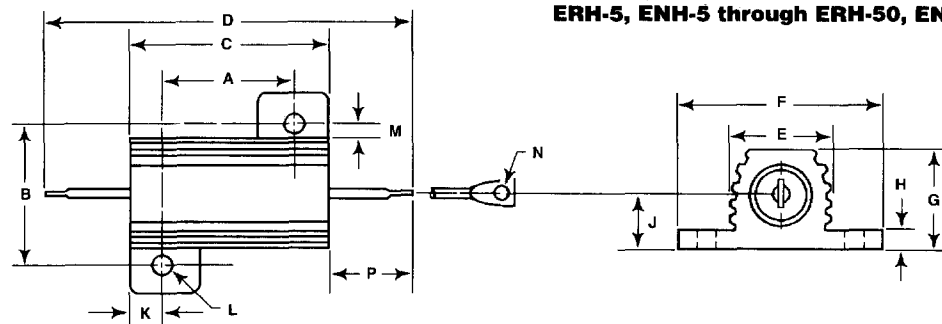
Encapsulant: Molded construction.

Housing: Aluminum with hard anodic coating.

Terminals: Tinned Copperweld®.

MODELS ERH and ENH

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



ERH-5, ENH-5 through ERH-50, ENH-50

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P
ERH-5	.444	.490	.600	1.125	.334	.646	.320	.065	.133	.078	.093	.078	.050	.266
ENH-5	±.005 [11.28]	±.005 [12.45]	±.031 [15.24]	±.062 [28.58]	±.015 [8.48]	±.015 [16.41]	±.015 [8.13]	±.010 [1.65]	±.010 [3.38]	±.010 [1.98]	±.005 [2.36]	±.015 [1.98]	±.005 [1.27]	±.062 [6.76]
ERH-10	.562	.625	.750	1.375	.420	.800	.390	.075	.165	.093	.094	.102	.085	.312
ENH-10	±.005 [14.27]	±.005 [15.88]	±.031 [19.05]	±.062 [34.93]	±.015 [10.67]	±.015 [20.32]	±.015 [9.91]	±.010 [1.90]	±.010 [4.19]	±.010 [2.36]	±.005 [2.39]	±.015 [2.59]	±.005 [2.16]	±.062 [7.92]
ERH-25	.719	.781	1.062	1.938	.550	1.080	.546	.075	.231	.172	.125	.115	.085	.438
ENH-25	±.005 [18.26]	±.005 [19.84]	±.031 [26.97]	±.062 [49.23]	±.015 [13.97]	±.015 [27.43]	±.015 [13.87]	±.010 [1.90]	±.010 [5.87]	±.010 [4.37]	±.005 [3.18]	±.015 [2.92]	±.005 [2.16]	±.062 [11.13]
ERH-50	1.562	.844	1.968	2.781	.630	1.140	.610	.088	.260	.196	.125	.107	.085	.438
ENH-50	±.005 [39.67]	±.005 [21.44]	±.031 [49.99]	±.062 [70.64]	±.015 [16.00]	±.015 [28.96]	±.015 [15.49]	±.010 [2.24]	±.010 [6.60]	±.010 [4.98]	±.005 [3.18]	±.015 [2.72]	±.005 [2.16]	±.062 [11.13]

NOTE: All resistance ranges shown conform to military specifications unless otherwise indicated.

ENVIRONMENTAL PERFORMANCE

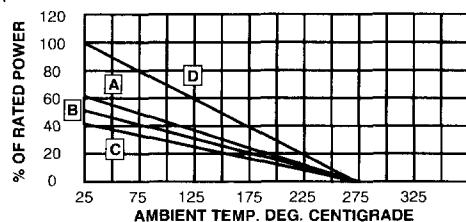
GENERAL: Testing of ERH and ENH resistors is done according to the procedures and test methods described in MIL-R-39009. The table below shows the military and the Dale® performance requirements.

TEST	MIL-R-39009	DALE TYPICAL
Temperature Coefficient	± 30PPM 20Ω and up ± 50PPM 1Ω to 19.60Ω ± 100PPM below 1Ω	See Table
Thermal Shock	± (.3% + 0.01Ω) ΔR	± (.2% + 0.01Ω) ΔR
Short Time Overload	± (.3% + 0.01Ω) ΔR	± (.15% + 0.01Ω) ΔR
Dielectric	± (.2% + 0.01Ω) ΔR	± (.2% + 0.01Ω) ΔR
High Temperature Storage (2 hours)	± (.5% + 0.01Ω) ΔR	± (.25% + 0.01Ω) ΔR
High Temperature Exposure (2,000 hours)	± (1% + 0.01Ω) ΔR	± (.75% + 0.01Ω) ΔR
Moisture Resistance	± (.5% + 0.01Ω) ΔR	± (.25% + 0.01Ω) ΔR
Shock	± (.2% + 0.01Ω) ΔR	± (.1% + 0.01Ω) ΔR
Vibration	± (.2% + 0.01Ω) ΔR	± (.1% + 0.01Ω) ΔR
Load Life (2,000 hours)	± (1% + 0.01Ω) ΔR	± (.5% + 0.01Ω) ΔR
Terminal Strength	± (.2% + 0.01Ω) ΔR	± (.1% + 0.01Ω) ΔR

DERATING

ERH and ENH resistors have an operating temperature range of -55°C to + 275°C. Derating is required for reduced chassis mounting area and for high ambient temperatures. The following curves apply to operation of unmounted resistors:

- A = ERH-5, ENH-5, ERH-10, ENH-10, unmounted.
- B = ERH-25, ENH-25, unmounted.
- C = ERH-50, ENH-50, unmounted.
- D = All types mounted to aluminum chassis.



POWER RATING

Dale® ERH and ENH resistor ratings are based on the following requirements:

1. 275°C maximum internal hotspot temperature.
2. 1% maximum ΔR in 2000 hour load life.
3. Proper heat sink:
4 x 6 x 2 x .040 aluminum chassis for ERH-5, ENH-5, ERH-10 and ENH-10.
5 x 7 x 2 x .040 aluminum chassis for ERH-25, ENH- 25, ERH-50 and ENH-50.

PART MARKING

- JAN
- 91637
- Value and tolerance
- Mil mark
- Date/lot code

CHECKLIST FOR ORDERING FILM RESISTORS



ORDERS MUST HAVE COMPLETE INFORMATION INCLUDING THE FOLLOWING:

1. Resistor type and model number
2. Resistor wattage rating
3. Resistor value
4. Resistor tolerance
5. Temperature Coefficient
6. Special quantity of each item
7. Specify routing
8. Desired delivery
9. If you have a drawing covering the part, specify your part number and drawing number and supply a copy with the order. Including the Dale® specification number on your drawings will assure you of exact duplication on all future orders.
10. Priority rating under DMS regulations and contract number (if applicable).
11. Specify if Letter of Certification is required.
12. Prices on specific items and quantities will be quoted on request. Quantity of each item ordered at one time determines unit price for manufacturers' orders.

STANDARD DECADE RESISTANCE VALUES

The following table lists four established number series which are used as preferred values in electronic design. Each series is shown under an associated value of tolerance %. The number series under the 10% column is known as the E12 Series because there are 12 standard values within a decade range. 2% and 5% utilize the E24 Series, 1% uses E96 and .1%, .25% and .5% use E192. Successive values within a decade series are related (approximately) by a factor of $^{12}\sqrt{10}$ for the E12 Series, $^{24}\sqrt{10}$ for the E24 Series, $^{96}\sqrt{10}$ for the E96 Series and $^{192}\sqrt{10}$ for the E192 Series.

Use of standard values is encouraged because stocking programs are designed around them. However, intermediate values can be special ordered where permitted. Consult factory.

.1%, .25%, .5%		.1%, .25%, .5%		.1%, .25%, .5%		.1%, .25%, .5%		.1%, .25%, .5%		.1%, .25%, .5%		.1%, .25%, .5%		2%, 5%		10%	
10.0	10.0	13.3	13.3	17.8	17.8	23.7	23.7	31.6	31.6	42.2	42.2	56.2	56.2	75.0	75.0	10	10
10.1		13.5		18.0		24.0		32.0		42.7		56.9		75.9		11	—
10.2	10.2	13.7	13.7	18.2	18.2	24.3	24.3	32.4	32.4	43.2	43.2	57.6	57.6	76.8	76.8	12	12
10.4		13.8		18.4		24.6		32.8		43.7		58.3		77.7		13	—
10.5	10.5	14.0	14.0	18.7	18.7	24.9	24.9	33.2	33.2	44.2	44.2	59.0	59.0	78.7	78.7	15	15
10.6		14.2		18.9		25.2		33.6		44.8		59.7		79.6		16	—
10.7	10.7	14.3	14.3	19.1	19.1	25.5	25.5	34.0	34.0	45.3	45.3	60.4	60.4	80.6	80.6	18	18
10.9		14.5		19.3		25.8		34.4		45.9		61.2		81.6		20	—
11.0	11.0	14.7	14.7	19.6	19.6	26.1	26.1	34.8	34.8	46.4	46.4	61.9	61.9	82.5	82.5	22	22
11.1		14.9		19.8		26.4		35.2		47.0		62.6		83.5		24	—
11.3	11.3	15.0	15.0	20.0	20.0	26.7	26.7	35.7	35.7	47.5	47.5	63.4	63.4	84.5	84.5	27	27
11.4		15.2		20.3		27.1		36.1		48.1		64.2		85.6		30	—
11.5	11.5	15.4	15.4	20.5	20.5	27.4	27.4	36.5	36.5	48.7	48.7	64.9	64.9	86.6	86.6	33	33
11.7		15.6		20.8		27.7		37.0		49.3		65.7		87.6		36	—
11.8	11.8	15.8	15.8	21.0	21.0	28.0	28.0	37.4	37.4	49.9	49.9	66.5	66.5	88.7	88.7	39	39
12.0		16.0		21.3		28.4		37.9		50.5		67.3		89.8		43	—
12.1	12.1	16.2	16.2	21.5	21.5	28.7	28.7	38.3	38.3	51.1	51.1	68.1	68.1	90.9	90.9	47	47
12.3		16.4		21.8		29.1		38.8		51.7		69.0		92.0		51	—
12.4	12.4	16.5	16.5	22.1	22.1	29.4	29.4	39.2	39.2	52.3	52.3	69.8	69.8	93.1	93.1	56	56
12.6		16.7		22.3		29.8		39.7		53.0		70.6		94.2		62	—
12.7	12.7	16.9	16.9	22.6	22.6	30.1	30.1	40.2	40.2	53.6	53.6	71.5	71.5	95.3	95.3	68	68
12.9		17.2		22.9		30.5		40.7		54.2		72.3		96.5		75	—
13.0	13.0	17.4	17.4	23.2	23.2	30.9	30.9	41.2	41.2	54.9	54.9	73.2	73.2	97.6	97.6	82	82
13.2		17.6		23.4		31.2		41.7		55.6		74.1		98.8		91	—

Standard resistance values are obtained from the decade table by multiplying by powers of 10. As an example, 13.3 can represent ohms, 133 ohms, 1.33k, 13.3k, 133k, 1.33 Megohm.



Military Product Identification

MILITARY PART ORDERING EXAMPLES

To help in ordering, the following are representative samples of military part numbers cross-referenced to Dale® part numbers. For complete information, consult Military Specification Qualified Products List.

RESISTORS: Fixed and Variable

MIL-R-26E (Basic [RW]) (Established Reliability MIL-R-39007 [RWR]) RW80 $\frac{U}{1}$ $\frac{49R9}{2}$ $\frac{F}{3}$ $\frac{4}{4}$ = Dale Type G-3 $\frac{49.9}{3}$ ohm $\frac{1}{4}$ % RW69 $\frac{V}{1}$ $\frac{101}{2}$ $\frac{3}{3}$ = Dale Type CW-2C-1 $\frac{100}{3}$ ohm, 5%	1. Style 2. Characteristic 3. Resistance Value 4. Tolerance	1. Style 2. Characteristic 3. Value (Tolerance below 1 ohm 10%, 1 ohm and up 5%)
MIL-R-10509F (Basic [RN]) (Established Reliability MIL-R-55182 [RNR]) RN60 $\frac{D}{1}$ $\frac{1003}{2}$ $\frac{F}{3}$ $\frac{4}{4}$ = Dale Type CMF-60 $\frac{T-1}{2}$ $\frac{100k}{3}$ $\frac{1}{4}$ %	1. Style 2. Characteristic - Temperature Coefficient 3. Resistance Value 4. Tolerance	
MIL-R-18546D (Basic [RE]) (Established Reliability MIL-R-39009 [RER]) RE65 $\frac{G}{1}$ $\frac{1001}{2}$ $\frac{3}{3}$ = Dale Type RH-10 $\frac{1k}{3}$	NOTE: 1% tolerance per Military Specification.	1. Style 2. Characteristic - Maximum continuous operating temperatures 3. Resistance Value
MIL-R-22684C (Basic [RL]) (Established Reliability MIL-R-39017 [RLR]) RL07 $\frac{S}{1}$ $\frac{103}{2}$ $\frac{J}{3}$ $\frac{4}{4}$ = Dale Type CMF-07 $\frac{10k}{3}$ $\frac{5\%}{4}$	NOTE: Parts will be color banded.	1. Style 2. Terminal 3. Resistance Value 4. Tolerance
MIL-R-22097F (Basic [RJ]) (Established Reliability MIL-R-39035 [RJR]) RJ24 $\frac{F}{1}$ $\frac{P}{2}$ $\frac{103}{3}$ $\frac{4}{4}$ = Techno Type 412 $\frac{1k}{1,3}$ $\frac{10\%}{4}$	NOTE: 10% tolerance per Military Specification.	1. Style 2. Characteristic 3. Terminal 4. Resistance
MIL-R-27208C (Basic [RT]) (Established Reliability MIL-R-39015 [RTR]) RT24 $\frac{C}{1}$ $\frac{2}{2}$ $\frac{P}{3}$ $\frac{102}{4}$ $\frac{5}{5}$ = Techno Type 126S $\frac{1k}{1,4}$ $\frac{5\%}{5}$	NOTE: 5% tolerance per Military Specification.	1. Style 2. Resistance - Temperature Characteristic 3. Temperature Characteristic 4. Terminal 5. Resistance
MIL-R-39007G (Established Reliability [RWR]) (Basic - MIL-R-26 [RW]) RWR74 $\frac{S}{1}$ $\frac{10R1}{2}$ $\frac{F}{3}$ $\frac{R}{4}$ $\frac{5}{5}$ = Dale Type ESS-5 $\frac{10.1}{3}$ ohm $\frac{1}{4}$ % $\frac{R}{5}$		1. Style 2. Terminal 3. Resistance Value 4. Tolerance 5. Failure Rate Level
MIL-R-39009C (Established Reliability [RER]) (Basic - MIL-R-18546 [RE]) RER65 $\frac{F}{1}$ $\frac{1001}{2}$ $\frac{R}{3}$ $\frac{4}{4}$ = Dale Type ERH-10 $\frac{1\%}{1}$ $\frac{1k}{2}$ $\frac{R}{3}$ $\frac{4}{4}$		1. Style 2. Tolerance 3. Resistance Value 4. Failure Rate Level
MIL-R-39015C (Established Reliability [RTR]) (Basic - MIL-R-27208 [RT]) RTR24 $\frac{D}{1}$ $\frac{P}{2}$ $\frac{102}{3}$ $\frac{R}{4}$ $\frac{5}{5}$ = Techno Type M39015/3 $\frac{007}{1,2}$ $\frac{P}{4}$ $\frac{R}{3}$ $\frac{5}{5}$	NOTE: 5% tolerance per Military Specification.	1. Style 2. Characteristic 3. Terminal 4. Resistance 5. Failure Rate Level
MIL-R-39017E (Established Reliability [RLR]) (Basic - MIL-R-22684 [RL]) RLR07 $\frac{C}{1}$ $\frac{1002}{2}$ $\frac{G}{3}$ $\frac{R}{4}$ $\frac{5}{5}$ = Dale Type ERL-07 $\frac{10k}{1}$ $\frac{2\%}{3}$ $\frac{R}{4}$ $\frac{5}{5}$		1. Style 2. Terminal Type 3. Resistance Value 4. Tolerance 5. Failure Rate Level
MIL-R-39035B (Established Reliability [RJR]) (Basic - MIL-R-22097 [RJ]) RJR24 $\frac{F}{1}$ $\frac{P}{2}$ $\frac{102}{3}$ $\frac{R}{4}$ $\frac{5}{5}$ = Techno Type RJR24 $\frac{F}{1}$ $\frac{P}{2}$ $\frac{1k}{3}$ $\frac{10\%}{4}$	NOTE: 10% tolerance per Military Specification.	1. Style 2. Characteristic 3. Terminal 4. Resistance 5. Failure Rate Level
MIL-R-49465A (Basic [RLV]) (Established Reliability - None) M49465 $\frac{02}{1}$ $\frac{L}{2}$ $\frac{R0100}{3}$ $\frac{J}{4}$ $\frac{5}{5}$ = Dale Type CPSL-3-6 $\frac{0.01}{4}$ ohm $\frac{5\%}{5}$	NOTE: L Characteristic.	1. Military Specification 2. Specification Sheet Number 3. Characteristic 4. Resistance Value 5. Tolerance
MIL-R-55182F (Established Reliability [RNR]) (Basic MIL-R-10509 [RN]) RNC55 $\frac{H}{1}$ $\frac{49R9}{2}$ $\frac{F}{3}$ $\frac{S}{4}$ $\frac{5}{5}$ = Dale Type ERC-55 $\frac{T-2}{1}$ $\frac{49.9}{2}$ ohm $\frac{1}{3}$ % $\frac{S}{4}$ $\frac{5}{5}$		1. Style 2. Characteristic/Temperature Coefficient 3. Resistance Value 4. Tolerance 5. Failure Rate Level
MIL-R-55342E (Established Reliability [RM]) (Basic - None) M55342 $\frac{M}{1}$ $\frac{02}{2}$ $\frac{S}{3}$ $\frac{100E}{4}$ $\frac{R}{5}$ $\frac{6}{6}$ = Dale Type RCM550 $\frac{100k}{3,4}$ $\frac{1\%}{5}$ $\frac{R}{6}$	NOTES: M Characteristic. One surface, pretinned, solderable terminations. D55342 is used for 07 detail specification sheet. Separate code for resistance value and tolerance is used in this Military Specification.	1. Military Specification 2. Characteristic 3. Specification Sheet Number 4. Termination Material 5. Resistance Value and Tolerance 6. Failure Rate Level

Military Product Identification

MILITARY PART ORDERING EXAMPLES			
RACK AND PANEL CONNECTORS			
MIL-C-28748A (Basic) (Established Reliability - None) M28748 $\frac{7}{1}$ $\frac{B}{2}$ $\frac{0}{3}$ $\frac{0}{4}$ $\frac{F}{5}$ $\frac{1A}{6}$ = Dale Type MMP22G5 $\frac{7}{7}$ $\frac{SL2L}{3}$ $\frac{6}{6}$		1. Military Specification 2. Specification Sheet Number 3. Insert Designator (B-7 Contacts) 4. Shield (0 = None) 5. Shell Polarization (0 = None) 6. Jackscrews or Guidepins 7. Contacts (1A = 100 percent size 22)	
RESISTOR NETWORKS			
MIL-R-83401F (Basic [RZ]) (Established Reliability MIL-R-874 [RZR]) M8340101 $\frac{M}{1,2}$ $\frac{1003}{3}$ $\frac{G}{4}$ $\frac{A}{5}$ = Dale Type MDM $\frac{100k}{4}$ $\frac{2\%}{5}$ $\frac{A}{6}$		NOTE: M Characteristic. 1. Military Specification 2. Specification Sheet Number 3. Characteristic 4. Resistance Value 5. Tolerance 6. Schematic	
Resistance Value Examples			
Three Digit Figure 100 = 10 ohm, 101 = 100 ohm 102 = 1k ohm, 203 = 20k ohm		Four Digit Figure 49R9 = 49.9 ohm, 1000 = 100 ohm 1001 = 1k ohm, 1004 = 1 Megohm	
Five Digit Figure 10R60 = 10.6 ohm, 10000 = 1k ohm 12701 = 12.7k ohm, 10202 = 102k ohm			
Tolerance Examples			
A = ± 0.05%		B = ± 0.10%	
D = ± 0.50%		F = ± 1.0%	
G = ± 2.0%		J = ± 5.0%	
TRANSFORMERS AND INDUCTORS			
MIL-T-27E (Basic [TF]) (Established Reliability - None) M27 $\frac{215}{1}$ $\frac{05}{2}$ = Dale Type TE-3Q0TR 1.0 mH 2%		1. Military Specification 2. Specification Sheet Number 3. Specification Sheet Dash Number Indicating Value and Electrical Ratings	
MIL-C-15305E (Basic [LT]) (Established Reliability MIL-C-39010) $\frac{LT}{1}$ $\frac{4}{2}$ $\frac{K}{3}$ = Dale Type IM-2 (.10 µH to 1.00 µH) 10%		NOTES: Parts will be color banded. Value per Military Standard dash number. 1. Style 2. Grade and Class 3. Family K = Coil, Radio Frequency, Fixed	

MILITARY COLOR CODES - FILM RESISTORS			
BAND A & B		BAND C	
COLOR	1st and 2nd SIGNIFICANT FIGURE	COLOR	VALUE MULTIPLIER
Black	0	Black	1
Brown	1	Brown	10
Red	2	Red	100
Orange	3	Orange	1,000
Yellow	4	Yellow	10,000
Green	5	Green	100,000
Blue	6	Blue	1,000,000
Purple (Violet)	7	Silver	0.01
Gray	8	Gold	0.1
White	9		
BAND D		BAND E	
COLOR	RESISTANCE TOLERANCE (Percent)	COLOR	TERMINAL
Gold	± 5%	White	Solderable
Red	± 2%		

8 1/2 x 11 & Pocket-Size Color Code ID Charts

For a 8 1/2 x 11 chart, or a supply of pocket-size charts showing actual colors used in marking film resistors and RF chokes, write to Dale Electronics, Inc., Advertising Department, 2064 12th Avenue, P.O. Box 609, Columbus, NE 68602-0609 or call (402) 563-6417.

Indicate size and type of chart desired: Film Resistor chart or RF Choke.

MILITARY COLOR CODES - RF COILS			
	BAND A & B	BAND C	BAND C
COLOR	SIGNIFICANT FIGURES or DECIMAL POINT	MULTIPLIER* or SIGNIFICANT FIGURE	INDUCTANCE TOLERANCE
Black	0	1	—
Brown	1	10	± 1%
Red	2	100	± 2%
Orange	3	1,000	± 3%
Yellow	4	10,000	± 4%
Green	5	—	—
Blue	6	—	—
Violet	7	—	—
Gray	8	—	—
White	9	—	—
None**	—	—	± 20%
Silver	—	—	± 10%
Gold	Decimal Point	—	± 5%
Band "A" is twice the width of the other bands and is silver in color to identify part as an inductor. ***			
For Inductance Values Less Than 10 either Band "B" or Band "C" will be gold and will represent the decimal point. The other two bands ("B" and "D" or "C" and "D") will represent significant figures.			
For Inductance Values of 10 or More Band "B" and Band "C" represent significant figures and Band "D" is the Multiplier.			
For small units , dots may be used in place of bands.			

* The multiplier is the factor by which two significant figures are multiplied to yield the nominal inductance value.

** Indicates body color.

*** Coated inductors are marked with four color bands, the first being a double wide significant figure or decimal point in lieu of the double wide silver inductor identifier.