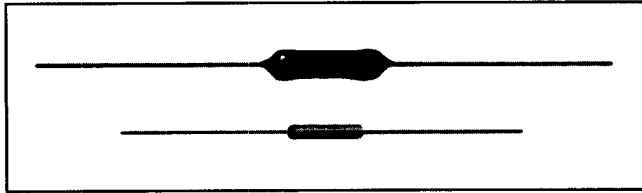


# MODEL G Wirewound Resistors

Military, MIL-R-26 Qualified, Type RW  
Precision Power, Silicone Coated and Molded



### FEATURES

- From 1.4 to 4 times higher power ratings than conventional resistors of equivalent size
- Completely welded construction
- High temperature silicone coated and molded
- Available in non-inductive styles (Type GN)
- Covered by U.S. Patent 3,295,090

STANDARD ELECTRICAL SPECIFICATIONS										
DALE MODEL	MIL-R-26 TYPE	DALE RATING		RESISTANCE RANGE (Ohms) MIL. Range shown in bold face				MAXIMUM * WORKING VOLTAGE		MAXIMUM WEIGHT (Grams)
		.05% thru 5%	3% & 5%	.05%	.1%	.25%	.5%, 1%, 3%, 5%	U	V	
G-1-80	RW81	1.0 W	—	1-1k	.499-1k	.499-3.4k	.1-3.4k	33	—	.20
—		1.0 W	—	—	<b>.499-1k</b>	<b>.499-1k</b>	<b>.1-1k</b>	33	—	.20
G-2	—	1.5 W	—	1-1.3k	.499-1.3k	.499-4.9k	.1-4.9k	42	—	.21
G-3-80	RW80	2.0 W	—	1-2.74k	.499-2.74k	.499-10.4k	.1-10.4k	80	—	.34
—		2.0 W	—	—	<b>.499-2.74k</b>	<b>.499-2.74k</b>	<b>.1-2.74k</b>	80	—	.34
G-5	—	4.0 W	5.0 W	.499-6.5k	.499-6.5k	.1-24.5k	.1-24.5k	162	184	.80
G-5C	—	5.0 W	7.0 W	.499-8.6k	.499-8.6k	.1-32.3k	.1-32.3k	194	230	1.20
G-10	—	7.0 W	10.0 W	.499-25.7k	.499-25.7k	.1-95.2k	.1-95.2k	425	508	3.60

\* Maximum working voltage determined at .0008" diameter wire resistance values.  
NOTE: All resistance ranges shown conform to military specifications unless otherwise indicated.

### ELECTRICAL SPECIFICATIONS

**Resistance Tolerance:**  $\pm 5\%$ ,  $\pm 3\%$ ,  $\pm 1\%$ ,  $\pm .5\%$ ,  $\pm .25\%$ ,  $\pm .10\%$ ,  $\pm .05\%$ .

**Temperature Coefficient:**  $\pm 90\text{PPM}/^\circ\text{C}$ , below 1 ohm.  $\pm 50\text{PPM}/^\circ\text{C}$ , 1 ohm - 9.9 ohm.  $\pm 20\text{PPM}/^\circ\text{C}$ , 10 ohm and above. Consult factory for special T.C. requirements.

**Dielectric Strength:** 500 VAC for G-1-80, G-2, G-3-80 models. 1000 VAC for all others.

**Insulation Resistance:** 1000 Megohm minimum dry, 100 Megohm minimum after moisture test.

**Short Time Overload:** 5 seconds at 5 times rated power = G-1-80 thru G-5C (Characteristic U). 5 seconds at 10 times rated power = all others.

### MECHANICAL SPECIFICATIONS

**Terminal Strength:** 5 pound pull test = G-1-80, G-2 and G-3-80. 10 pound pull test = all others.

**Solderability:** MIL-R-26 Type - Meets requirements of MIL-STD-202, Method 208. Standard G (Non-MIL Models) - 60/40 electro tin plated terminals to facilitate soldering.

**Termination:** When G resistors will be operated at full rated power, resistance welding or high temperature solder are the recommended termination methods. Termination should be made within 1/2 inch from end of resistor body.

### MATERIAL SPECIFICATIONS

**Core:** Beryllium oxide or alumina depending on power requirements.

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

**End Caps:** Stainless steel.

**Coating:** Special high temperature silicone.

**Standard Terminals:** Tinned Copperweld®.

**Weldable Leads:** The following weldable lead materials are available from Dale® on a standard stocking basis and can be specified by adding the dash number shown below to the standard part number.

Grade "A" Nickel, untinned -53.

Gold-plated Dumet (50 microinch) -52.

(Example: G-1-53 or G-1-52.)

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]					
	MODEL	A	B (Max.)	C	D
MOLDED	G-1-80	.250 $\pm$ .015 [6.35 $\pm$ .381]	—	.078 $\pm$ .015 [1.98 $\pm$ .381]	.020 [.508]
	G-2	.312 $\pm$ .015 [7.92 $\pm$ .381]	—	.078 $\pm$ .015 [1.98 $\pm$ .381]	.020 [.508]
	G-3-80	.422 $\pm$ .015 [10.72 $\pm$ .381]	—	.110 $\pm$ .015 [2.79 $\pm$ .381]	.020 [.508]
COATED	G-5	.562 $\pm$ .062 [14.27 $\pm$ 1.57]	.640 [16.26]	.188 $\pm$ .032 [4.78 $\pm$ .813]	.032 [.813]
	G-5C	.500 $\pm$ .062 [12.70 $\pm$ 1.57]	.593 [15.06]	.218 $\pm$ .032 [5.54 $\pm$ .813]	.040 [1.02]
	G-10	.875 $\pm$ .062 [22.23 $\pm$ 1.57]	1.0 [25.40]	.312 $\pm$ .032 [7.92 $\pm$ .813]	.040 [1.02]

**MODEL G**

**APPLICABLE MIL-SPECIFICATIONS**

**MIL-R-26E:** This is a military specification designed especially for precision and non-precision power wirewound resistors. The G models meet the requirements of this specification as well as the older MIL-R-26C and MIL-R-23379 specifications.

**SPECIAL MODIFICATIONS**

1. Terminals can be supplied in any commercial material with several type finishes.
2. Terminal lengths and diameters can be varied.
3. Various elements available for special T.C.
4. Special configuration available on request.
5. Tolerances available to .01% on most types.
6. Special matching available (T.C. and tolerance).

**GN - NON-INDUCTIVE**

Models of equivalent physical and electrical specifications are available with non-inductive (Aryton-Perry) winding. They are identified by adding the letter N to the letter G in the part number (GN-5, for example). Three conditions apply:

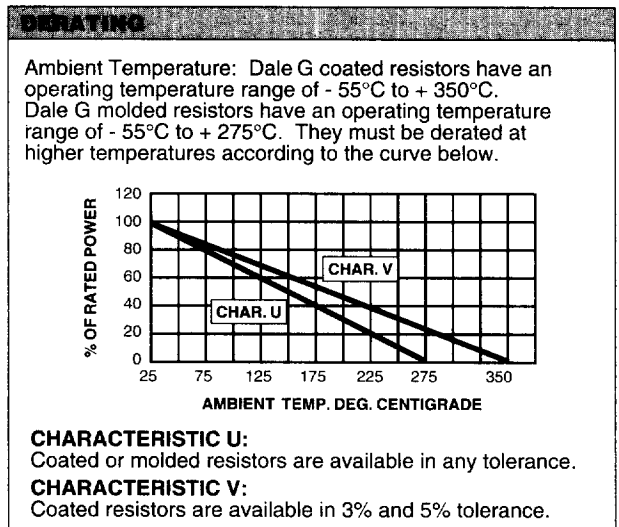
1. For GN Types, divide maximum resistance values by two.
2. For GN Types, multiply maximum working voltage by .707.
3. For GN Types, maximum weights may slightly exceed those shown on low values.

- |         |        |
|---------|--------|
| GN-1-80 | GN-5   |
| GN-2    | GN-5C* |
| GN-3-80 | GN-10  |

\* Body O.D. may exceed that of the G-5C by .010" [.254].

ENVIRONMENTAL PERFORMANCE*		
TEST	MIL-R-26E REQUIREMENT	DALE MAXIMUM
Moisture Resistance	$\pm (.2\% + .05\Omega) \Delta R$	$\pm (.2\% + .05\Omega) \Delta R$
Load Life	$\pm (.5\% + .05\Omega) \Delta R$	$\pm (.5\% + .05\Omega) \Delta R$
Temperature Coefficient	30-90PPM/°C Max.	See Elec. Specs.
Thermal Shock	$\pm (.2\% + .05\Omega) \Delta R$	$\pm (.2\% + .05\Omega) \Delta R$
Short Time Overload	$\pm (.2\% + .05\Omega) \Delta R$	$\pm (.2\% + .05\Omega) \Delta R$
Dielectric	$\pm (.1\% + .05\Omega) \Delta R$	$\pm (.1\% + .05\Omega) \Delta R$
Low Temperature Storage	$\pm (.2\% + .05\Omega) \Delta R$	$\pm (.2\% + .05\Omega) \Delta R$
High Temperature Exposure	$\pm (.5\% + .05\Omega) \Delta R$	$\pm (.5\% + .05\Omega) \Delta R$
Shock	$\pm (.1\% + .05\Omega) \Delta R$	$\pm (.1\% + .05\Omega) \Delta R$
Vibration	$\pm (.1\% + .05\Omega) \Delta R$	$\pm (.1\% + .05\Omega) \Delta R$
Terminal Strength	$\pm (.1\% + .05\Omega) \Delta R$	$\pm (.1\% + .05\Omega) \Delta R$

\* All  $\Delta R$  figures shown are maximum, based on units with an initial tolerance of 1% and maximum operating temperature of 275°C.



**POWER RATING**

Power ratings of Dale G resistors are 1.4 to 4 times higher than those of conventional wirewound resistors of equivalent size. At the higher ratings, Dale G resistors will meet the same environmental and life stability requirements of the lower rated conventional resistors.

**CHARACTERISTIC U:**

1. 275°C maximum hotspot temperature.
2. .5% maximum  $\Delta R$  in 2000 hour load life.

**CHARACTERISTIC V:**

1. 350°C maximum hotspot temperature.
2. 3% maximum  $\Delta R$  in 2000 hour load life.

**PART MARKING**

— Dale
— Model
— Value
— Tolerance
— Date code

**HOW TO ORDER**

<u>G-3-80</u>	<u>10</u>	<u>1%</u>
MODEL	RESISTANCE	TOLERANCE

# 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<sup>®</sup> 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

<b>MIL-R-26E</b> (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%)
<b>MIL-R-10509F</b> (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	
<b>MIL-R-18546D</b> (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
<b>MIL-R-22684C</b> (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
<b>MIL-R-22097F</b> (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
<b>MIL-R-27208C</b> (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
<b>MIL-R-39007G</b> (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
<b>MIL-R-39009C</b> (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
<b>MIL-R-39015C</b> (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
<b>MIL-R-39017E</b> (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
<b>MIL-R-39035B</b> (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
<b>MIL-R-49465A</b> (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
<b>MIL-R-55182F</b> (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
<b>MIL-R-55342E</b> (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			
<b>RACK AND PANEL CONNECTORS</b>			
<b>MIL-C-28748A</b> (Basic) (Established Reliability - None)		1. Military Specification 2. Specification Sheet Number 3. Insert Designator (B-7 Contacts) 4. Shield (0 = None)	
M28748	$\frac{7}{2}$ $\frac{B}{3}$ $\frac{0}{4}$ $\frac{0}{5}$ $\frac{F}{6}$ $\frac{1A}{7}$ = Dale Type	MMP22G5	$\frac{7}{3}$ $\frac{SL2L}{6}$
5. Shell Polarization (0 = None) 6. Jackscrews or Guidepins 7. Contacts (1A = 100 percent size 22)			
<b>RESISTOR NETWORKS</b>			
<b>MIL-R-83401F</b> (Basic [RZ]) (Established Reliability MIL-R-874 [RZR])		1. Military Specification 2. Specification Sheet Number 3. Characteristic 4. Resistance Value	
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.
5. Tolerance 6. Schematic			
<b>Resistance Value Examples</b>			
<b>Three Digit Figure</b>		<b>Four Digit Figure</b>	
100 = 10 ohm, 101 = 100 ohm 102 = 1k ohm, 203 = 20k ohm		49R9 = 49.9 ohm, 1000 = 100 ohm 1001 = 1k ohm, 1004 = 1 Megohm	
<b>Five Digit Figure</b>			
10R60 = 10.6 ohm, 10000 = 1k ohm 12701 = 12.7k ohm, 10202 = 102k ohm			
<b>Tolerance Examples</b>			
A = ± 0.05%		B = ± 0.10%	
D = ± 0.50%		F = ± 1.0%	
G = ± 2.0%		J = ± 5.0%	
<b>TRANSFORMERS AND INDUCTORS</b>			
<b>MIL-T-27E</b> (Basic [TF]) (Established Reliability - None)		1. Military Specification 2. Specification Sheet Number 3. Specification Sheet Dash Number Indicating Value and Electrical Ratings	
M27	$\frac{215}{2}$ $\frac{05}{3}$ = Dale Type	TE-3Q0TR	1.0 mH 2%
<b>MIL-C-15305E</b> (Basic [LT]) (Established Reliability MIL-C-39010)		NOTES: Parts will be color banded. Value per Military Standard dash number.	
$\frac{LT}{1}$	$\frac{4}{2}$ $\frac{K}{3}$ = Dale Type	IM-2 (.10 µH to 1.00 µH)	10%
1. Style 2. Grade and Class 3. Family K = Coil, Radio Frequency, Fixed			

MILITARY COLOR CODES - FILM RESISTORS			
<b>BAND A &amp; B</b>		<b>BAND C</b>	
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		
<b>BAND D</b>		<b>BAND E</b>	
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			
	<b>BAND A &amp; B</b>	<b>BAND C</b>	<b>BAND C</b>
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%
<p><b>Band "A"</b> is twice the width of the other bands and is silver in color to identify part as an inductor. ***</p> <p><b>For Inductance Values Less Than 10</b> 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.</p> <p><b>For Inductance Values of 10 or More</b> Band "B" and Band "C" represent significant figures and Band "D" is the Multiplier.</p> <p><b>For small units</b>, dots may be used in place of bands.</p>			

\* 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.