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DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

AUTOMATIC TELEPHONE

CENTRAL OFFICES

AN/TTC-38(V)1
(NSN 5805-00-186-0681)

AND

AN/TTC-38(V)2
(NSN 5805-00-186-0640)

DEPARTMENTS OF THE ARMY AND THE NAVY

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DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

AUTOMATIC TELEPHONE CENTRAL OFFICES

AN / TTC-38(V)1 AND AN / TTC-38(V)2

There are seven manuals in this series. Each manual has a separate contents.

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CHAPTER 11

SCHEMATIC DIAGRAMS

11-1. General

This chapter contains schematic diagrams for assemblies and printed circuit cards in AN / TTC 38(V)(*). Diagrams are arranged in assembly reference designator order. Where schematic is identical for several assemblies or printed circuit cards, only the drawing for the lowest numbered reference designator is provided.

11-2. Schematic Diagrams

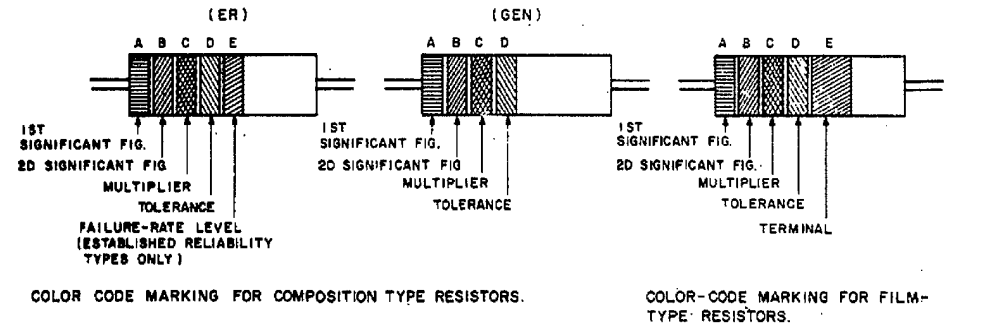


TABLE 1
COLOR CODE FOR COMPOSITION TYPE AND FILM TYPE RESISTORS.

BAND A		BAND B		BAND C		BAND D		BAND E	
COLOR	FIRST SIGNIFICANT FIGURE	COLOR	SECOND SIGNIFICANT FIGURE	COLOR	MULTIPLIER	COLOR	RESISTANCE TOLERANCE (PERCENT)	COLOR	FAILURE RATE LEVEL
BLACK.....	0	BLACK.....	0	BLACK.....	1			BROWN.....	M=1.0
BROWN.....	1	BROWN.....	1	BROWN.....	10			RED.....	P=0.1
RED.....	2	RED.....	2	RED.....	100			ORANGE.....	R=0.01
ORANGE.....	3	ORANGE.....	3	ORANGE.....	1,000			YELLOW.....	S=0.001
YELLOW.....	4	YELLOW.....	4	YELLOW.....	10,000	SILVER.....	±10 (COMP. TYPE ONLY)	WHITE.....	
GREEN.....	5	GREEN.....	5	GREEN.....	100,000	GOLD.....	±5		
BLUE.....	6	BLUE.....	6	BLUE.....	1,000,000	RED.....	±2 (NOT APPLICABLE TO ESTABLISHED RELIABILITY)		
PURPLE..... (VIOLET)	7	PURPLE..... (VIOLET)	7						
GRAY.....	8	GRAY.....	8	SILVER.....	0.01				
WHITE.....	9	WHITE.....	9	GOLD.....	0.1				

BAND A — THE FIRST SIGNIFICANT FIGURE OF THE RESISTANCE VALUE (BANDS A THRU D SHALL BE OF EQUAL WIDTH.)

BAND B — THE SECOND SIGNIFICANT FIGURE OF THE RESISTANCE VALUE.

BAND C — THE MULTIPLIER (THE MULTIPLIER IS THE FACTOR BY WHICH THE TWO SIGNIFICANT FIGURES ARE MULTIPLIED TO YIELD THE NOMINAL RESISTANCE VALUE.)

BAND D — THE RESISTANCE TOLERANCE.

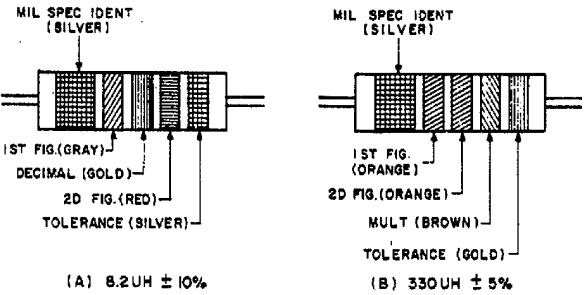
BAND E — WHEN USED ON COMPOSITION RESISTORS, BAND E INDICATES ESTABLISHED RELIABILITY FAILURE — RATE LEVEL (PERCENT FAILURE PER 1,000 HOURS). ON FILM RESISTORS, THIS BAND SHALL BE APPROXIMATELY 1-1/2 TIMES THE WIDTH OF OTHER BANDS, AND INDICATES TYPE OF TERMINAL.

RESISTANCES IDENTIFIED BY NUMBERS AND LETTERS (THESE ARE NOT COLOR CODED)

SOME RESISTORS ARE IDENTIFIED BY THREE OR FOUR DIGIT ALPHA NUMERIC DESIGNATORS. THE LETTER R IS USED IN PLACE OF A DECIMAL POINT WHEN FRACTIONAL VALUES OF AN OHM ARE EXPRESSED. FOR EXAMPLE:

2R7 = 2.7 OHMS 10R0 = 10.0 OHMS

FOR WIRE-WOUND-TYPE RESISTORS COLOR CODING IS NOT USED, IDENTIFICATION MARKING IS SPECIFIED IN EACH OF THE APPLICABLE SPECIFICATIONS.

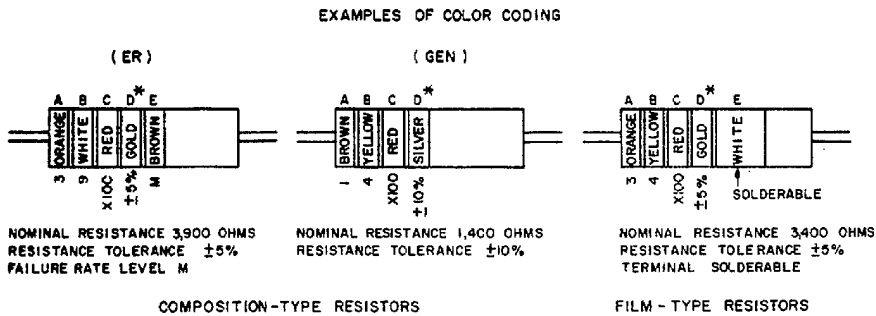


COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES. AT A, AN EXAMPLE OF THE CODING FOR AN 8.2UH CHOKE IS GIVEN. AT B, THE COLOR BANDS FOR A 330UH INDUCTOR ARE ILLUSTRATED.

TABLE 2
COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES.

COLOR	SIGNIFICANT FIGURE	MULTIPLIER	INDUCTANCE TOLERANCE (PERCENT)
BLACK	0	1	
BROWN	1	10	1
RED	2	100	2
ORANGE	3	1,000	3
YELLOW	4		
GREEN	5		
BLUE	6		
VIOLET	7		
GRAY	8		
WHITE	9		
NONE			20
SILVER			10
GOLD		DECIMAL POINT	5

MULTIPLIER IS THE FACTOR BY WHICH THE TWO COLOR FIGURES ARE MULTIPLIED TO OBTAIN THE INDUCTANCE VALUE OF THE CHOKE COIL.



* IF BAND D IS OMITTED, THE RESISTOR TOLERANCE IS ± 20% AND THE RESISTOR IS NOT MIL-STD.

A. COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS.

B. COLOR CODE MARKING FOR MILITARY STANDARD INDUCTORS.

Figure 11-1①. Standard color codes (sheet 1)