

CHART 4

RESISTANCE (Ohms) (NOTE 1)	CODE	RESISTANCE (Ohms) (NOTE 1)	CODE	RESISTANCE (Ohms) (NOTE 1)	CODE
1.0	1R0	2,700	272	5.6Meg.	565
1.1 *	1R1	3,000 *	302	6.2 *	625
1.2	1R2	3,300	332	6.8	685
1.3 *	1R3	3,600 *	362	7.5 *	755
		3,900	392	8.2	825
1.5	1R5	4,300 *	432	9.1 *	915
1.6 *	1R6	4,700	472	10	106
1.8	1R8	5,100 *	512	11 *	116
2.0 *	2R0	5,600	562	12	126
2.2	2R2	6,200 *	622	13 *	136
2.4 *	2R4	6,800	682		
2.7	2R7	7,500 *	752	15	156
3.0 *	3R0	8,200	822	16 *	166
3.3	3R3	9,100 *	912	18	186
3.6 *	3R6	10,000	103	20 *	206
3.9	3R9	11,000 *	113	22	226
4.3 *	4R3	12,000	123	24 *	246
4.7	4R7	13,000 *	133	27	276
5.1 *	5R1	15,000	153	30 *	306
5.6	5R6	16,000 *	163	33	336
6.2 *	6R2	18,000	183	36 *	366
6.8	6R8	20,000 *	203	39	396
7.5 *	7R5	22,000	223	43 *	436
8.2	8R2	24,000 *	243	47	476
9.1 *	9R1	27,000	273	51 *	516
10	100	30,000 *	303	56	566
11 *	110	33,000	333	62 *	626
12	120	36,000 *	363	75 *	756
13 *	130	39,000	393	82	826
15	150	43,000 *	433	91 *	916
16 *	160	47,000	473		
18	180	51,000 *	513		
20 *	200	56,000 *	563		
22	220	62,000 *	623		
24 *	240	68,000	683		
27	270	75,000 *	753		
30 *	300	82,000	823		
33	330	91,000 *	913		
36 *	360	100,000	104		
39	390	110,000 *	114		
43 *	430	120,000	124		
47	470	130,000 *	134		
51 *	510	150,000	154		
56	560	160,000 *	164		
62 *	620	180,000	184		
68	680	200,000 *	204		
75 *	750	220,000	224		
82	820	240,000 *	244		
91 *	910	270,000	274		
100	101	300,000 *	304		
110 *	111	330,000	334		
120	121	360,000 *	364		
130 *	131	390,000	394		
150	151	430,000 *	434		
160 *	161	470,000	474		
180	181	510,000 *	514		
200 *	201	560,000	564		
220	221	620,000 *	624		
240 *	241	680,000	684		
270	271	750,000 *	754		
300 *	301	820,000	824		
330	331	914,000 *	914		
360 *	361	1.0Meg.	105		
390	391	1.1 *	115		
430 *	431	1.2	125		
470	471	1.3 *	135		
510 *	511				
560	561	1.5	155		
620 *	621	1.6 *	165		
680	681	1.8	185		
750 *	751	2.0 *	205		
820	821	2.2	225		
910 *	911	2.4 *	245		
1,000	102	2.7	275		
1,100 *	112	3.0 *	305		
1,200	122	3.3	335		
1,300 *	132	3.6 *	365		
1,500	152	3.9 *	395		
1,600 *	162	4.3 *	435		
1,800	182	4.7	475		
2,000 *	202	5.1Meg.*	515		
2,200	222				
2,400 *	242				

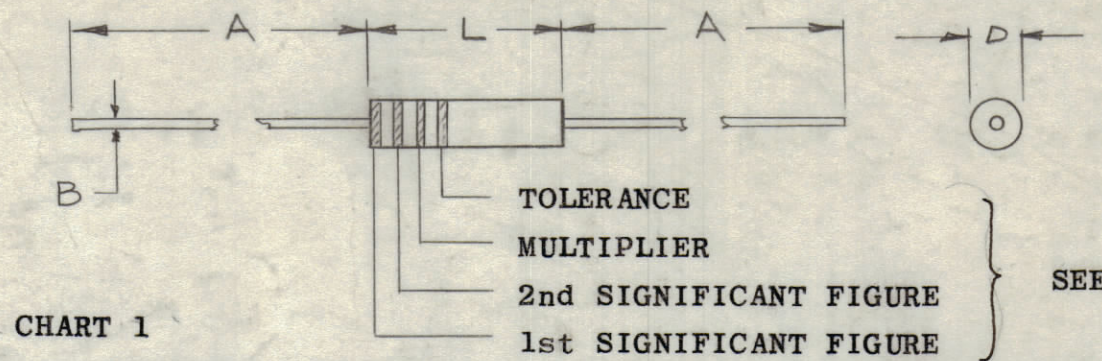
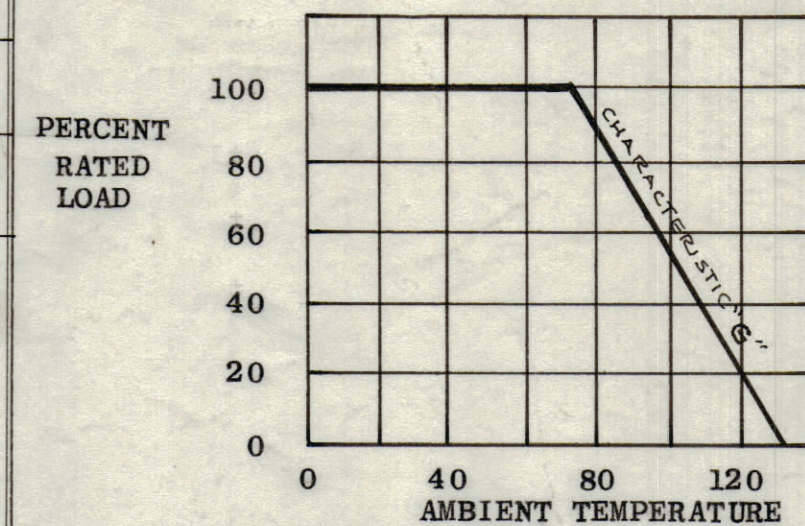


CHART 1

STYLE (NOTE 1)	POWER RATING (SEE GRAPH)	AVAIL. RESIS. RANGE	MAX. CONTINUOUS WORKING VOLTAGE	DIMENSIONS				MAXIMUM OVERLOAD	AVAIL. TOLERANCE **
				A	B	L	D		
RC07	1/4 W	2.7Ω-22MΩ	250 V	1 1/2 ± 1/8	.025 ± .002	.250 ± .031	.090 ± .008	400 V	K, J, G
RC20	1/2 W	2.7Ω-22MΩ	350 V	1 1/2 ± 1/8	.031 ± .005	.375 ± .041	.138 ± .023	700 V	K, J, G
RC32	1 W	2.7Ω-22MΩ	500 V	1 1/2 ± 1/8	.040 ± .005	.562 ± .031	.225 ± .015	1,000 V	K, J, G
RC42	2 W	10Ω - 22MΩ	500 V	1 1/2 ± 1/8	.043 ± .003	.688 ± .040	.318 ± .018	1,000 V	K, J, G

ZONE	SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
-	B	REVISED & REDRAWN	11/13/63	10590			
C2	C	ON CHART 6 GOLD MULTIPL. WAS ±10, SILVER MULT. W. ±100	12/21/64	12650			
D	D	CODE 101 WAS 224,100, DELE. NEW EQUIPMENT DESIGN NOTE: CHGD K TOL TO J	11/3/66	17170			



MAX. AMB. TEMP. CHARACTERISTIC	
SYMBOL	MAX. AMB. TEMP. FOR FULL
G	70°C.

- NOTES:
- RESISTANCE VALUES SHOWN WITH AN ASTERISK ARE AVAILABLE IN ±5% (J) & ±2% (G) TOLERANCES ONLY.
 - WHERE RC30 OR RC09 UNITS ARE CALLED FOR RC32 OR RC07 UNITS, RESPECTIVELY, WILL BE SUPPLIED IN ACCORDANCE WITH MIL-R-11.
 - TOLERANCE OF ±2% (G) SHOULD BE USED ONLY FOR SPECIAL APPLICATIONS.
- ** STANDARD TMC TOL. IS .5%

TMC PART NO. SHALL BE IN THE FOLLOWING FORM:

RC20 G F 153 J

STYLE (SEE CHART 1) AMBIENT TEMP. (SEE CHART 2) RESIS. TEMP (SEE CHART 3) RESIS. CODE (SEE CHART 4) TOLERANCE (SEE CHART 5)

ADD "YY" TO PART NUMBER FOR NON-MILITARY TYPE

RESISTANCE AT 25 ° C.	MAX. CHANGE IN RESISTANCE	
	SYMBOL F	
	-55°C.	+105°C.
1.0KΩ or less	±6.5%	±5%
1.1KΩ - 10KΩ	±10%	±6%
11KΩ - 100KΩ	±13%	±7.5%
110K - 1.0MΩ	±15%	±10%
1.1MΩ - 10MΩ	±20%	±15%
11MΩ or greater	±25%	±15%

** CHART 5 TOLERANCE	
SYMBOL	PERCENT
K	±10
J	±5
G	see note 3

CHART 3

SPECIFICATIONS

INSULATION RESISTANCE : 10,000M Ω OR GREATER

APPLICABLE SPECS : MIL-R-11
MIL-STD-221
MS90178

CHART 6

COLOR	FIGURE	MULTIPLIER	TOLERANCE
BLACK	0	1	-
BROWN	1	10	-
RED	2	100	±2% see note 3
ORANGE	3	1,000	-
YELLOW	4	10,000	-
GREEN	5	100,000	-
BLUE	6	1,000,000	-
VIOLET	7	10,000,000	-
GRAY	8	100,000,000	-
WHITE	9	-	-
GOLD	-	.1	±5%
SILVER	-	.01	±10%

STANDARD DRAWING

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
CAMARDA LIST OF MATERIAL				
MATERIAL		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
FINISH		TITLE RESISTOR, FIXED, COMPOSITION (INSULATED)		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN <i>(Signature)</i>	DATE 12/23/63	FINAL APPROVAL <i>(Signature)</i>
DECIMALS X ± .05 XX ± .01 XXX ± .005		CHECKED <i>(Signature)</i>	DATE 1-11-64	DATE
TOLERANCES		ELECT. DES.	DATE	RC07, RC20, RC32, RC42
FRACTIONS ± 1/64 ANGLES ± 0° 30'		MECH. DES.	DATE	SHEET
				REV. LTR.

NOTES

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