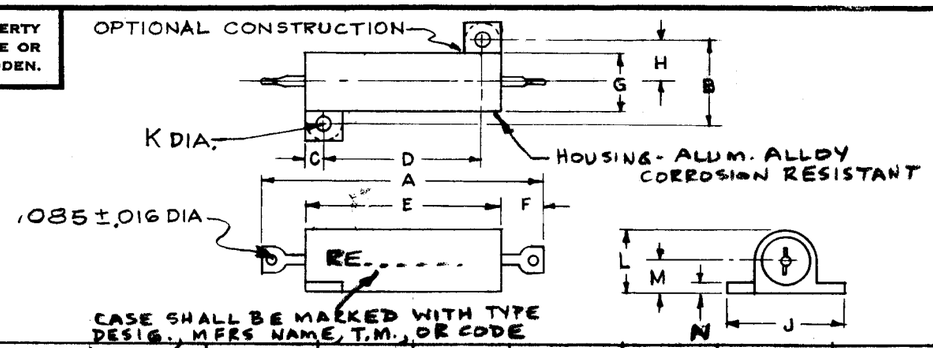
STANDARD DRAWING

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

RE 65, 70, 75

1. ALL DIMENSIONS IN INCHES.
2. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ±1/32.



RESISTOR STYLE	A±1/16	B±0.010	C	D±0.010	E±1/16	F±1/16	G±1/16	H	J	K±0.005	L	M±1/16	N
RE65	1-3/8	5/8	3/32	9/16	3/4	5/16	7/16	5/16	13/16	3/32	13/32	13/64	3/32
RE70	1-15/16	25/32	11/64	23/32	1-1/16	7/16	17/32	25/64	1-3/32	1/8	9/16	9/32	3/32
RE75	2-25/32	27/32	3/16	1-9/16	1-15/16	7/16	19/32	27/64	1-5/32	1/8	5/8	5/16	3/32

RESISTOR STYLE	WEIGHT	POWER RATING (See Note 1)	MINIMUM AND MAXIMUM NOMINAL RESISTANCE VALUES (See Note 2)			DIELECTRIC-WITHSTAND.-TEST VOLTAGE AT ATMOSPHERIC PRESS.
			MINIMUM	MAXIMUM		
	GRAMS, MAXIMUM	WATTS	OHMS	OHMS *	OHMS **	VOLTS (See Note 3)
RE65	6	10	0.10	1,100	5,620	1,000
RE70	13	15	0.10	2,210	12,100	1,000
RE75	26	20	0.10	8,060	39,200	2,000

RESISTOR STYLE	TERMINAL STRENGTH DIRECT PULL	(See Note 1) LOAD LIFE CHASSIS DIMENSIONS		POWER RATING (FREE AIR) (Not Mounted On Chassis)
	POUNDS	LG., W., & HGT.	THICK.	WATTS
RE65	5 +0 −1/4	6 X 4 X 2	0.04	6
RE70	10 +0 −1/2	7 X 5 X 2	0.04	9
RE75	10 +0 −1/2	7 X 5 X 2	0.04	9

CHARACTERISTIC	
SYMBOL	MAX. CONTINUOUS OPERATING TEMP.
G	275°C

SPECIFICATIONS:
RESISTANCE TOLERANCE = ±1 %
RESISTANCE TEMPERATURE CHARACTERISTIC = +0.0030 % PER °C. (30 PARTS PER MILLION (30 ppm)) FOR RESISTANCE VALUES OF 2,000 OHMS AND HIGHER AND +0.0050 % PER °C. (50 ppm) FOR RESISTANCE VALUES UNDER 2,000 OHMS.

RESISTANCE:
THE NOMINAL RESISTANCE VALUE EXPRESSED IN OHMS IS IDENTIFIED BY A FOUR-DIGIT NUMBER; THE FIRST THREE DIGITS REPRESENT SIGNIFICANT FIGURES AND THE LAST DIGIT SPECIFIES THE NUMBER OF ZEROS TO FOLLOW. WHERE FRACTIONAL VALUES OF AN OHM, AND VALUES OF LESS THAN 100 OHMS, ARE REQUIRED, THE LETTER "R" IS SUBSTITUTED FOR ONE OF THE SIGNIFICANT DIGITS TO REPRESENT THE DECIMAL POINT. WHEN THE LETTER "R" IS USED, THE SUCCEEDING DIGITS BECOME SIGNIFICANT. THE FOLLOWING ARE EXAMPLES OF SYMBOLS FOR RESISTANCE VALUES:

R100 = 0.10 ohm 10R0 = 10 ohms 1001 = 1,000 ohms
1R00 = 1.0 ohm 1000 = 100 ohms 1002 = 10,000 ohms

STANDARD RESISTANCE VALUES FOR 1 TO 10 DECADE #

1.00	1.30	1.69	2.21	2.87	3.74	4.87	6.34	8.25
1.02	1.33	1.74	2.26	2.94	3.83	4.99	6.49	8.45
1.05	1.37	1.78	2.32	3.01	3.92	5.11	6.65	8.66
1.07	1.40	1.82	2.37	3.09	4.02	5.23	6.81	8.87
1.10	1.43	1.87	2.43	3.16	4.12	5.36	6.98	9.09
1.13	1.47	1.91	2.49	3.24	4.22	5.49	7.15	9.31
1.15	1.50	1.96	2.55	3.32	4.32	5.62	7.32	9.53
1.18	1.54	2.00	2.61	3.40	4.42	5.76	7.50	9.76
1.21	1.58	2.05	2.67	3.48	4.53	5.90	7.68	
1.24	1.62	2.10	2.74	3.57	4.64	6.04	7.87	
1.27	1.65	2.15	2.80	3.65	4.75	6.19	8.06	

VALUES NOT LISTED WILL BE CONSIDERED NONSTANDARD.

CLASSIFICATION:
TYPE DESIGNATION SHALL BE IN THE FOLLOWING FORM:

RE65 (STYLE) G (CHARACTERISTIC) 1001 (RESISTANCE)

RESISTORS MUST BE MANUFACTURED IN ACCORDANCE WITH MIL-R-18546/1A.

NOTES:
1. POWER RATING - BASED ON FULL OPERATION AT AN AMBIENT TEMPERATURE OF 25°C WHEN MOUNTED ON THE CHASSIS SPECIFIED IN CHART. (See Load Life Chassis Dimension Chart).
2. * BASED ON USE OF 0.00175 INCH NOMINAL DIAMETER WIRE.
   ** BASED ON USE OF 0.001 INCH NOMINAL DIAMETER WIRE.
3. AT REDUCED BAROMETRIC PRESSURE - THE MAGNITUDE OF THE TEST VOLTAGE SHALL BE 500 VOLTS.

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°

SCALE:

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE

USED ON

REQ.	ITEM	PART NO.	GELLMAN DESCRIPTION	SYMBOL

STOCK SIZE

MATERIAL

TYPE & TEMPER | HEAT TREAT. SPEC.

FINISH & SPEC. NO.

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

RESISTORS, FIXED, WIREWOUND
(POWER TYPE, CHASSIS MOUNTED)

DRAWN	CHECKED	FINAL APPROVAL
W.S.		

ELEC. DES. APP.	MECH. DES. APP.	
		RE 65, 70, 75

THC FORM NO. 109

DEFIANCE NO. 1080 36845