

ORDERING CODE

LEADED RESISTORS

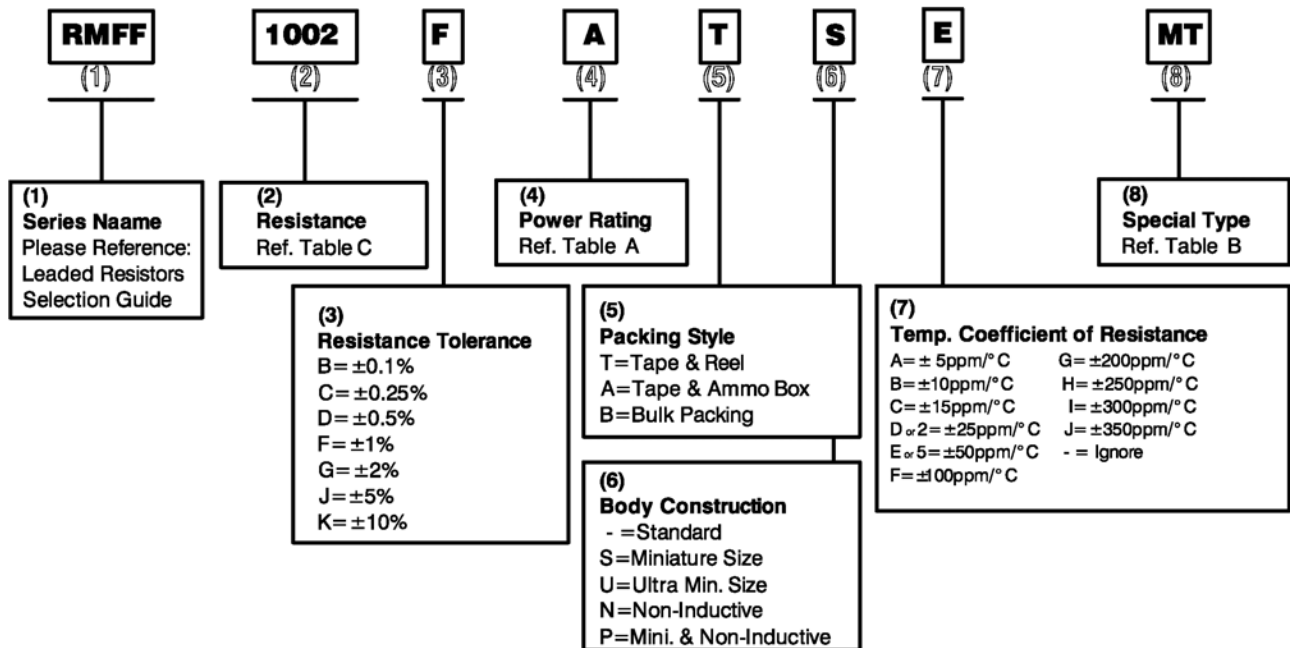


Table A - Power Rating

symbol	Power Rating	symbol	Power Rating	symbol	Power Rating	symbol	Power Rating
A	1/8 W	I	6 W	Q	40 W	Y	200 W
B	1/4 W	J	7 W	R	50 W	Z	1000 W
C	1/2 W	K	8 W	S	60 W	04	0.4 W
D	1 W	L	9 W	T	70 W	06	0.6 W
E	2 W	M	10 W	U	80 W	18	18 W
F	3 W	N	15 W	V	90 W	27	27 W
G	4 W	O	20 W	W	100 W		
H	5 W	P	30 W	X	150 W		

Table B - Special Type

symbol	Forming	symbol	Forming	symbol	Forming
M	M-Type Forming	D	D-Type Forming	V	AVIsert
N	N-Type Forming	E	E-Type Forming	Blank	Standard
F	F-Type Forming	R	R-Type Forming		
C	C-Type Forming	P	PANAsert		

ORDERING CODE

LEADED RESISTORS

Table C - RESISTANCE

STANDARD RESISTANCE VALUES FOR THE 10-TO-100 DECADE
(also usable in decade multiples or sub-multiples)

Resistance Tolerance (±%)																	
0.1% 0.25% 0.5%	1%	2% 5% 10%	0.1% 0.25% 0.5%	1%	2% 5% 10%	0.1% 0.25% 0.5%	1%	2% 5% 10%	0.1% 0.25% 0.5%	1%	2% 5% 10%	0.1% 0.25% 0.5%	1%	2% 5% 10%	0.1% 0.25% 0.5%	1%	2% 5% 10%
10.0	10.0	10	14.7	14.7	-	21.5	21.5	-	31.6	36.1	-	46.4	46.4	-	68.1	68.1	68
10.1	-	-	14.9	-	-	21.8	-	-	32.0	-	-	47.0	-	47	69.0	-	-
10.2	10.2	-	15.0	15.0	15	22.1	22.1	22	32.4	32.4	-	47.5	47.5	-	69.8	69.8	-
10.4	-	-	15.2	-	-	22.3	-	-	32.8	-	-	48.1	-	-	70.6	-	-
10.5	10.5	-	15.4	15.4	-	22.6	22.6	-	33.2	33.2	33	48.7	48.7	-	71.5	71.5	-
10.6	-	-	15.6	-	-	22.9	-	-	33.6	-	-	49.3	-	-	72.3	-	-
10.7	10.7	-	15.8	15.8	-	23.2	23.2	-	34.0	34.0	-	49.9	49.9	-	73.2	73.2	-
10.9	-	-	16.0	-	16	23.4	-	-	34.4	-	-	50.5	-	-	74.1	-	-
11.0	11.0	11	16.2	16.2	-	23.7	23.7	-	34.8	34.8	-	51.1	51.1	51	75.0	75.0	75
11.1	-	-	16.4	-	-	24.0	-	24	35.2	-	-	51.7	-	-	75.9	-	-
11.3	11.3	-	16.5	16.5	-	24.3	24.3	-	35.7	35.7	-	52.3	52.3	-	76.8	76.8	-
11.4	-	-	16.7	-	-	24.6	-	-	36.1	-	36	53.0	-	-	77.7	-	-
11.5	11.5	-	16.9	16.9	-	24.9	24.9	-	36.5	36.5	-	53.6	53.6	-	78.7	78.7	-
11.7	-	-	17.2	-	-	25.2	-	-	37.0	-	-	54.2	-	-	79.6	-	-
11.8	11.8	-	17.4	17.4	-	25.5	25.5	-	37.4	37.4	-	54.9	54.9	-	80.6	80.6	-
12.0	-	12	17.6	-	-	25.8	-	-	37.9	-	-	55.6	-	-	81.6	-	-
12.1	12.1	-	17.8	17.8	-	26.1	26.1	-	38.3	38.3	-	56.2	56.2	56	82.5	82.5	82
12.3	-	-	18.0	-	18	26.4	-	-	38.8	-	-	56.9	-	-	83.5	-	-
12.4	12.4	-	18.2	18.2	-	26.7	26.7	-	39.2	39.2	39	57.6	57.6	-	84.5	84.5	-
12.6	-	-	18.4	-	-	27.1	-	27	39.7	-	-	58.3	-	-	85.6	-	-
12.7	12.7	-	18.7	18.7	-	27.4	27.4	-	40.2	40.2	-	59.0	59.0	-	86.6	86.6	-
12.9	-	-	18.9	-	-	27.7	-	-	40.7	-	-	59.7	-	-	87.6	-	-
13.0	13.0	13	19.1	19.1	-	28.0	28.0	-	41.2	41.2	-	60.4	60.4	-	88.7	88.7	-
13.2	-	-	19.3	-	-	28.4	-	-	41.7	-	-	61.2	-	-	89.8	-	-
13.3	13.3	-	19.6	19.6	-	28.7	28.7	-	42.2	42.2	-	61.9	61.9	62	90.9	90.9	91
13.5	-	-	19.8	-	-	29.1	-	-	42.7	-	-	62.6	-	-	92.0	-	-
13.7	13.7	-	20.0	20.0	20	29.4	29.4	-	43.2	43.2	43	63.4	63.4	-	93.1	93.1	-
13.8	-	-	20.3	-	-	29.8	-	-	43.7	-	-	64.2	-	-	94.2	-	-
14.0	14.0	14	20.5	20.5	-	30.1	30.1	30	44.2	44.2	-	64.9	64.9	-	95.3	95.3	-
14.2	-	-	20.8	-	-	30.5	-	-	44.8	-	-	65.7	-	-	96.5	-	-
14.3	14.3	-	21.0	21.0	21	30.9	30.9	-	45.3	45.3	-	66.5	66.5	-	97.6	97.6	-
14.5	-	-	21.3	-	-	31.2	-	-	45.9	-	-	67.3	-	-	98.8	-	-
E-192	E-96	E-24	E-192	E-96	E-24	E-192	E-96	E-24	E-192	E-96	E-24	E-192	E-96	E-24	E-192	E-96	E-24

✳ **3-Digit IEC Code (E-24)**

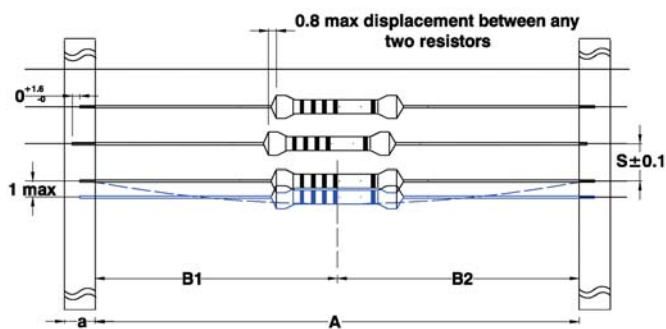
Example: 1R0、100、101、102、103.....

✳ **4-Digit IEC Code (E-96,E-192)**

Example: 1R00、10R0、1000、1001、1002.....

PACKING

Leaded Resistors



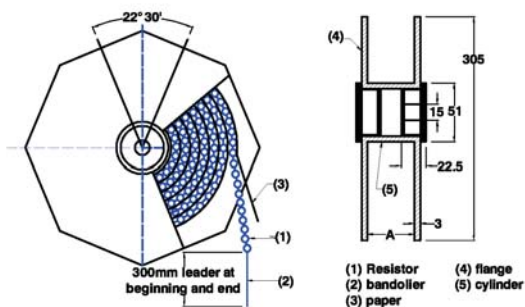
Bandolier for Axial Leads:

The resistor are supplied on bandolier; either 1000 resistors in ammo pack or 5000 resistors on reel.

PACKING METHODS (in/mm)

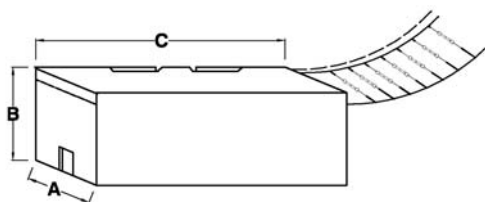
STYLE	a	A	B1-B2	S(spacing)	T(max. deviation of spacing)
RJW, 1/8W 1/4W(S)	0.24 ±0.2 (6±5)	2.07±0.06 (52.5±1.5)	0.047 (1.2)	0.2 (5.0)	1 mm per 10 spacing 0.5 mm per 5 spacing
1/4W 1/2W(S)	0.24 ±0.2 (6±5)	2.07±0.06 (52.5±1.5)	0.047 (1.2)	0.2 (5.0)	
1/2W 1W(S)	0.24 ±0.2 (6±5)	2.07±0.06 (52.5±1.5)	0.047 (1.2)	0.2 (5.0)	
1W 2W(S)	0.24 ±0.2 (6±5)	2.87±0.06 (73.0.0±1.5)	0.06 (1.5)	0.2 (5.0)	
2W 3W(S)	0.24 ±0.2 (6±5)	2.87±0.06 (73.0.0±1.5)	0.06 (1.5)	0.4 (10.0)	

TYPE ON REEL PACKING: Bandoliers can be reeled; Dimension a differ with type.



STYLE	ACROSS FLANGE(A)	QTY PER REEL
RJW, 1/8W 1/4W(S)	2.83 (72)	5,000
1/4W 1/2W(S)	1.89/2.83 (48/72)	5,000
1/2W 1W(S)	2.83 (72)	3,000
1W 2W(S)	3.74 (95)	2,000
2W 3W(S)	3.74 (95)	1,000

TYPE ON BOX PACKING: Bandoliers may also be supplied in a cardboard box ("ammo pack").



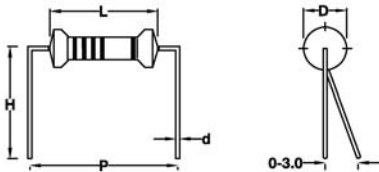
STYLE	W(A)	H(B)	L(C)	QTY PER BOX
RJW, 1/8W 1/4W(S)	3.07 (78)	0.79 (20)	10.39 (264)	5,000
1/4W 1/2W(S)	3.07 (78)	0.79 (20)	10.39 (264)	5,000
1/2W 1W(S)	3.07 (78)	1.81 (46)	10.39 (264)	3,000
1W 2W(S)	4.06 (103)	2.76 (70)	10.43 (265)	2,000
2W 3W(S)	4.06 (103)	3.35 (85)	10.43 (265)	1,000

FORMING

Leaded Resistors

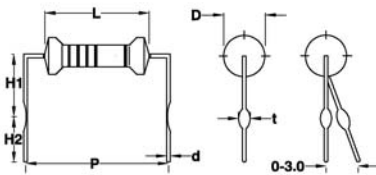
TRIGON
COMPONENTS

M TYPE (in/mm)



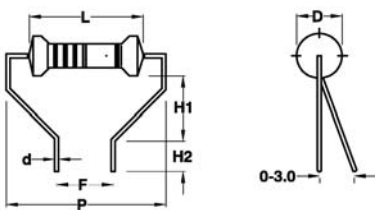
STYLE	L	p	D	d	H
1/8W 1/4W(S)	0.13 ±0.02 (3.3±0.5)	0.20±0.04 (5.0±1.0)	0.07 ±0.01 (1.8±0.25)	0.018 ±0.002 (0.45±0.05)	0.39 ±0.04 (10.0±1)
1/4W 1/2W(S)	0.25 ±0.02 (6.3±0.5)	0.39±0.04 (10.0±1.0)	0.09 ±0.01. (2.3±0.25)	0.022 ±0.002 (0.55±0.05)	0.39 ±0.04 (10.0±1)
1/2W 1W(S)	0.35 ±0.02 (9.0±0.5)	0.49±0.04 (12.5±1.0)	0.13 ±0.02 (3.2±0.5)	0.024 ±0.002 (0.6±0.05)	0.39 ±0.04 (10±1)
1W 2W(S)	0.45 ±0.04 (11.5±1.0)	0.59±0.04 (15.0±1.0)	0.18 ±0.02 (4.5±0.5)	0.031 ±0.002 (0.78±0.05)	0.59 ±0.04 (10±1)
2W 3W(S)	0.61±0.04 (15.5±1.0)	0.79±0.04 (20.0±1.0)	0.2 ±0.02 (5.0±0.5)	0.031 ±0.002 (0.78±0.05)	0.59 ±0.04 (10±1)

N TYPE (in/mm)



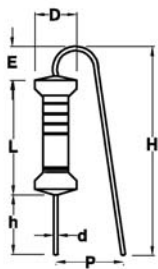
STYLE	L	p	D	d	H1	H2	t
1/2W 1W(S)	0.35 ±0.02 (9.0±0.5)	0.49±0.04 (12.5±1.0)	0.13 ±0.02. (3.2±0.5)	0.024 ±0.002 (0.6±0.05)	0.24 ±0.04 (6.0±1)	0.20 ±0.04 (4.0±1)	0.05±0.008 (1.3±0.2)
1W 2W(S)	0.45 ±0.04 (11.5±1.0)	0.59±0.04 (15.0±1.0)	0.18 ±0.02 (4.5±0.5)	0.031 ±0.002 (0.78±0.05)	0.24 ±0.04 (6.0±1)	0.20 ±0.04 (4.0±1)	0.05±0.008 (1.3±0.2)
2W 3W(S)	0.61 ±0.04 (15.5±1.0)	0.79±0.04 (20.0±1.0)	0.20 ±0.02 (5.0±0.5)	0.031 ±0.002 (0.78±0.05)	0.24±0.04 (6.0±1)	0.20 ±0.04 (4.0±1)	0.05±0.008 (1.3±0.2)
3W 5W(S)	0.67 ±0.04 (17±1.0)	1.18 ±0.04 (30.0±1.0)	0.24 ±0.02 (6.0±0.5)	0.031 ±0.002 (0.78±0.05)	0.51±0.04 (13.0±1)	0.20 ±0.04 (4.0±1)	0.05±0.008 (1.3±0.2)
5W	0.96 ±0.04 (24.5±1.0)	1.18 ±0.04 (30.0±1.0)	0.31 ±0.02 (8.0±0.5)	0.031 ±0.002 (0.78±0.05)	0.51±0.04 (13.0±1)	0.20 ±0.04 (4.0±1)	0.05±0.008 (1.3±0.2)

R TYPE (in/mm)



STYLE	L	p	F	D	d	H1	H2
1/2W 1W(S)	0.35 ±0.02 (9.0±0.5)	0.57±0.04 (14.5±1.0)	0.28±0.02. (7.0±0.5)	0.16 ±0.02 (3.2±0.5)	0.24 ±0.002 (0.6±0.05)	0.28 ±0.04 (7.1±1)	0.20±0.04 (5.0±1)
1W 2W(S)	0.45 ±0.04 (11.5±1.0)	0.69±0.04 (17.5±1.0)	0.28±0.02 (7.0±0.5)	0.18 ±0.02 (4.5±0.5)	0.031 ±0.002 (0.78±0.05)	0.31 ±0.04 (7.8±1)	0.20±0.04 (5.0±1)
2W 3W(S)	0.61 ±0.04 (15.5±1.0)	0.85±0.04 (21.5±1.0)	0.28±0.02 (7.0±0.5)	0.20±0.02 (5.0±0.5)	0.031±0.002 (0.78±0.05)	0.35 ±0.04 (8.9±1)	0.20±0.04 (5.0±1)

F TYPE (in/mm)

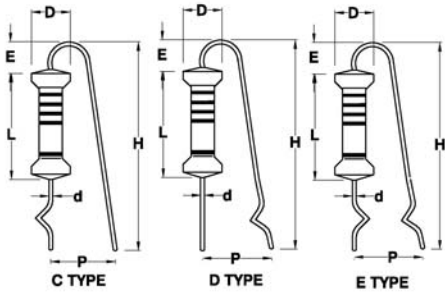


STYLE	L	p	D	d	h	H max	E max
1/2W 1W(S)	0.35 ±0.04 (9.0±0.5)	0.24±0.04 (6.0±1.0)	0.13 ±0.02. (3.2±0.3)	0.023±0.002 (0.58±0.05)	0.20±0.04 (5.0±1)	0.70 (18)	0.14 3.5
1W 2W(S)	0.45 ±0.04 (11.5±1.0)	0.24±0.04 (6.0±1.0)	0.18 ±0.02. (4.5±0.5)	0.031±0.002 (0.78±0.05)	0.20±0.04 (5.0±1)	0.86 (22)	0.14 3.5
2W 3W(S)	0.61 ±0.04 (15.5±1.0)	0.24±0.04 (6.0±1.0)	0.20±0.02 (5.0±0.5)	0.031±0.002 (0.78±0.05)	0.20±0.04 (5.0±1)	1.02 (26)	0.14 3.5
3W 5W(S)	0.67 ±0.04 (17.0±1.0)	0.24±0.04 (6.0±1.0)	0.24±0.02 (6.0±0.5)	0.031±0.002 (0.78±0.05)	0.20±0.04 (5.0±1)	1.06 (27)	0.14 3.5
5W	0.96 ±0.04 (24.5±1.0)	0.24±0.04 (6.0±1.0)	0.31±0.02 (8.0±0.5)	0.031±0.002 (0.78±0.05)	0.20±0.04 (5.0±1)	1.37 (35)	0.14 3.5

FORMING

Leaded Resistors

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C, D, E TYPE (in/mm)

STYLE	L	p	D	d	h	H max	E max
1/2W 1W(S)	0.35 ±0.04 (9.0±0.5)	0.39±0.04 (10.0±1.0)	0.13 ±0.02 (3.2±0.3)	0.023±0.002 (0.58±0.05)	0.20±0.04 (5.0±1)	0.70 (18)	0.14 3.5
1W 2W(S)	0.45 ±0.04 (11.5±1.0)	0.24±0.04 (6.0±1.0)	0.18 ±0.02 (4.5±0.5)	0.031±0.002 (0.78±0.05)	0.39±0.04 (10.0±1)	1.06 (27)	0.14 3.5
2W 3W(S)	0.61 ±0.04 (15.5±1.0)	0.24±0.04 (6.0±1.0)	0.20±0.02 (5.0±0.5)	0.031±0.002 (0.78±0.05)	0.39±0.04 (10.0±1)	1.22 (31)	0.14 3.5

Resistor

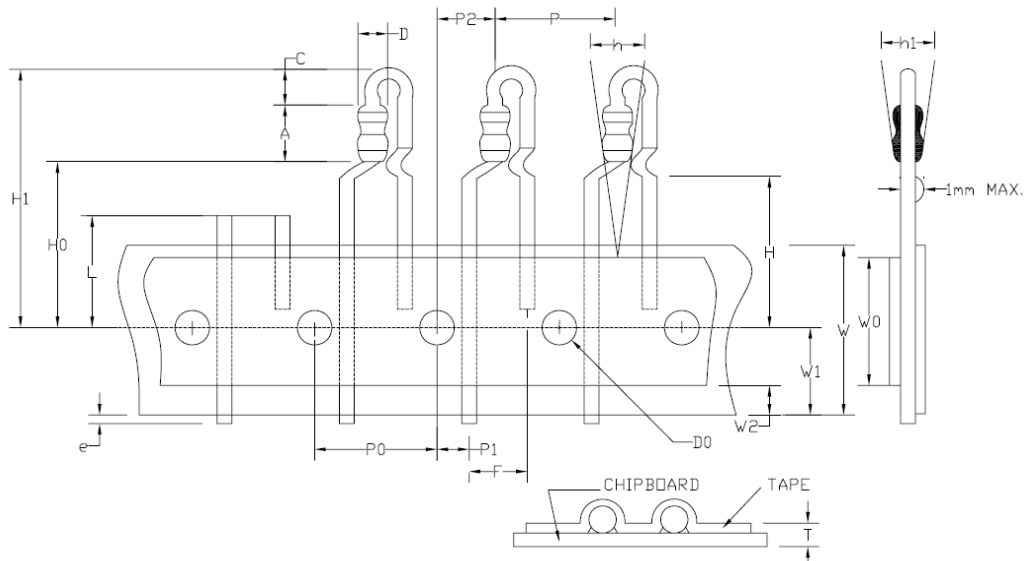
FORMING

Leaded Resistors

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P Type Forming for Taping

(Rated Watts 1/4 W size only)



Description	Type	P Type Forming for Taping			
		Dimensions(mm)		Dimensions(Inches)	
		25&50s	1W&2WS	25&50S	1W&2WS
Resistor Body Diameter	D	2.3±0.2	4±0.5	0.090±0.008	0.157±0.020
Resistor Body Length	A	6.3±0.5	11±1.0	0.256±0.020	0.433±0.039
Resistor Pitch	P	12.7±1.0	12.7±1.0	0.500±0.039	0.500±0.039
Sprocket Hole Pitch	P0	12.7±0.3	12.7±0.5	0.500±0.012	0.500±0.020
Sprocket Hole Center To Lead Center	P1	3.85±0.7	3.85±0.7	0.152±0.028	0.152±0.028
Sprocket Hole Center To Resistor Center	P2	6.35±1.0	5.10±1.0	0.250±0.039	0.200±0.039
Resistor Lead Spacing	F	5.0±1.0	5.0±0.8	0.197±0.039	0.197±0.039
Resistor Alignment	h	0±2.0(0±5 ⁰)		0±0.097(0±5 ⁰)	
Chipboard Width	W	18 ^{+1.0} _{-0.5}	18.0±0.5	0.709 ^{+0.039} _{-0.020}	0.709±0.020
Hold-Down Tape Resistor	W0	12.0MIN.	12.0±1.0	0.492MIN.	0.472±0.039
Sprocket Hole Position	W1	9.0 ^{+0.75} _{-0.5}	9.0±0.5	0.354 ^{+0.030} _{-0.020}	0.354±0.020
Hold-Down Tape Position	W2	6.0MAX.	6.0MAX.	0.24MAX.	0.24MAX.
Height To Bottom Of Resistor	H	19.0±1.0	19.0±1.0	0.784±0.039	0.784±0.039
Height To Lead Clinch	H0	16.0±0.5	16.0±1.0	0.630±0.020	0.630±0.039
Lead Protrusion	e	2.0MAX.	2.0MAX.	0.079MAX.	0.079MAX.
Sprocket Hold Diameter	D0	4.0±0.3	4.0±0.3	0.157±0.012	0.157±0.012
Thickness(Chipboard And Tape)	T	0.7±0.2	0.7±0.2	0.028±0.008	0.028±0.008
Cutout Length	L	11.0MAX.	11.0MAX.	0.433MAX.	0.433MAX.
Height Of Resistor	H1	28.5MAX.	35.5MAX.	1.122MAX.	1.398MAX.
Height Of Bending	C	2.5±0.5	2.5±1.0	0.098±0.020	0.098±0.039
Resistor Alignment	h1	0±2.0(0±5 ⁰)		0±0.079(0±5 ⁰)	

※Cumulative Pitch Tolerances Not To Exceed±1.0mm (±0.039 In) Over 20 Consecutive Pitches

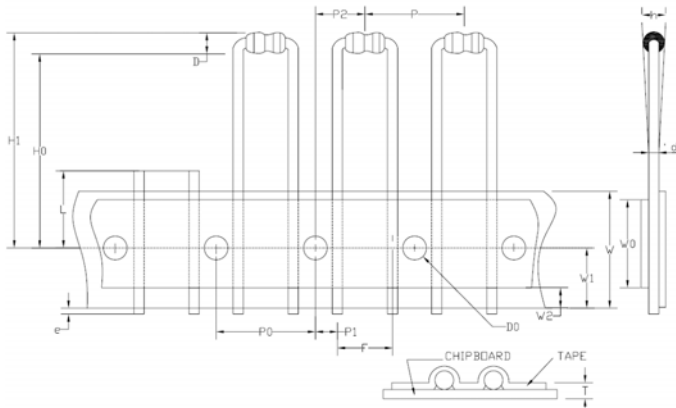
FORMING

Leaded Resistors

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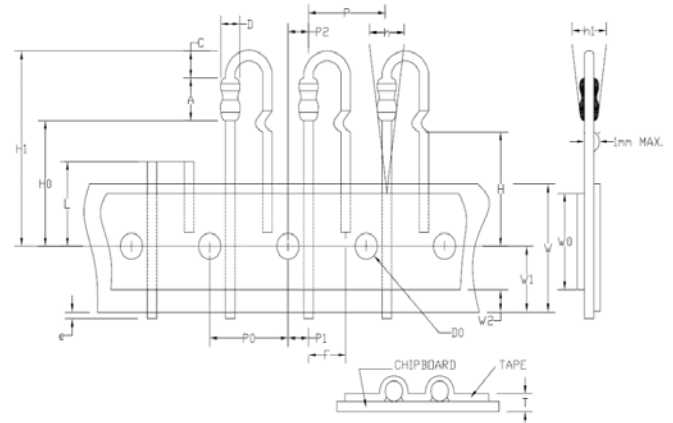
M Type Forming for Taping

(Rated Watts 1/8 W size only)



V Type Forming for Taping

(Rate Watts 1/4 W size only)



Description	Type	Dimensions(mm)		Dimensions(Inches)	
		V Type	M Type	V Type	M Type
		25&50s	12&25S	25&50S	12&25S
Resistor Body Diameter	D	2.3±0.2	1.8±0.3	0.090±0.008	0.071±0.016
Resistor Body Length	A	6.3±0.5	3.3 ^{+0.4} _{-0.2}	0.256±0.020	---
Resistor Pitch	P	12.7±1.0	12.7±1.0	0.500±0.039	0.500±0.039
Sprocket Hole Pitch	P0	12.7±0.3	12.7±0.5	0.500±0.012	0.500±0.020
Sprocket Hole Center To Lead Center	P1	3.85±0.7	3.85±0.7	0.152±0.028	0.152±0.028
Sprocket Hole Center To Resistor Center	P2	6.35±1.3	6.35±1.0	0.250±0.051	0.250±0.039
Resistor Lead Spacing	F	5.0 ^{+0.8} _{-0.2}	5.0±0.8	0.197 ^{+0.031} _{-0.008}	0.197±0.039
Resistor Alignment	h	0±2.0(0±5 ⁰)	0±1.0	0±0.097(0±5 ⁰)	0±0.039
Chipboard Width	W	18 ^{+1.0} _{-0.5}	18.0±1.0	0.709 ^{+0.039} _{-0.020}	0.709±0.039
Hold-Down Tape Resistor	W0	12.0±1.0	12.0±1.0	0.59±0.039	0.472±0.039
Sprocket Hole Position	W1	9.0 ^{+0.75} _{-0.5}	9.0±0.5	0.354 ^{+0.030} _{-0.020}	0.354±0.020
Hold-Down Tape Position	W2	6.0MAX.	6.0MAX.	0.24MAX.	0.24MAX.
Height To Bottom Of Resistor	H	16.0 ^{+1.0} _{-0.3}	21.0MAX.	0.630 ^{+0.039} _{-0.012}	0.827MAX.
Height To Lead Clinch	H0	16.0±0.5	---	0.630±0.020	---
Lead Protrusion	e	1.0MAX.	2.0MAX.	0.039MAX.	0.079MAX.
Sprocket Hold Diameter	D0	4.0±0.3	4.0±0.3	0.157±0.012	0.157±0.012
Thickness(Chipboard And Tape)	T	0.7±0.2	0.7±0.2	0.028±0.008	0.028±0.008
Cutout Length	L	11.0MAX.	11.0MAX.	0.079MAX.	0.079MAX.
Height Of Resistor	H1	27.0MAX.	32.25MAX.	1.102MAX.	1.398MAX.
Height Of Bending	C	3.0 ⁺⁰ ₋₁	---	0.118 ⁺⁰ ₋₁	---
Lead wire diameter	d	---	0.45±0.03	---	0.178±0.012
Resistor Alignment	h1	0±2.0(0±5 ⁰)	---	0±0.079(0±5 ⁰)	---

※Cumulative Pitch Tolerances Not To Exceed±1.0mm (±0.039 In) Over 20 Consecutive Pitches