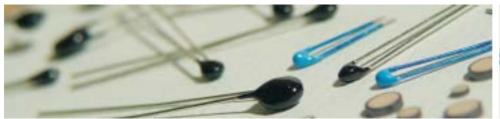
NTC DISC THERMISTOR

FOR TEMPERATURE SENSING / FOR TEMPERATURE COMPENSATION





NTC - 10K D-5 J

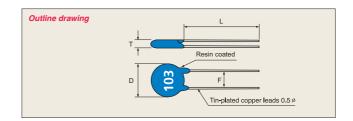
- ① SYMBOL
- ② RESISTANCE AT $25 \,^{\circ}$ C ($10K:10^{\circ}$ L)
- ③ NOMINAL DIA. OF DISC (D-2: 2mm, D-5: 5mm)
- 4 RESISTANCE TOLERANCE (F:±1%, G:±2%, H:±3%, J:±5%, K:±10%, L:±15%)

RATINGS

PART No.	Rtaed power at 25°C	Dissipation constant	Time constant	Operating temp. range
D - 2	100 mW	2.0mW/°C	10 sec	
D - 3	250 mW	3.0mW/°C	15 sec	-40°C ~120°C
D - 5	500 mW	7.5mW/°C	20 sec	

DIMENSIONS

PART No.	D	Т	L	F
D - 2	3.0 max.	2.0 max.	25 min.	$2.0/5.0 \pm 0.5$
D - 3	3.5 max.	3.0 max.	25 min.	$2.0/5.0\pm0.5$
D - 5	5.5 max.	4.0 max.	25 min.	$2.5/5.0 \pm 0.5$



SPECIFICATION

D-2

PART No.	Resistance (25°C)	B Value (25°C/85°C)
100D - 2	100 Ω	3000
1KD - 2	1 kΩ	3100/3200
2KD - 2	2 kΩ	3200
5KD - 2	5 kΩ	3300
10KD - 2	10 kΩ	3300/3435/3970
20KD - 2	20 kΩ	3300
30KD - 2	$30 \text{ k}\Omega$	3300
50KD - 2	50 kΩ	4000/4400
100KD - 2	100 kΩ	4400/4700
150KD - 2	150 kΩ	4400/4700
500KD - 2	500 kΩ	4700
1MD - 2	1 ΜΩ	5000

D-5

PART No.	Resistance (25°C)	B Value (25°C/85°C)
10D - 5	10 Ω	2800
20D - 5	20 Ω	3000
50D - 5	50 Ω	3100/3250
80D - 5	Ω 08	3300
100D - 5	100 Ω	3200/3300
200D - 5	200Ω	3200/3400
250D - 5	250Ω	3200/3400
300D - 5	300Ω	3200/3500
360D - 5	360Ω	3500
500D - 5	500Ω	3200/3650
650D - 5	650Ω	3200/3650
800D - 5	800Ω	3650/3850
1KD - 5	1 kΩ	3650/3850/3950
1.2KD - 5	1.2 kΩ	3650/3850/3950
1.5KD - 5	1.5 kΩ	3650/3850/3950
2KD - 5	2 kΩ	4000
3KD - 5	3 kΩ	4000
5KD - 5	5 kΩ	4100
6.8KD - 5	$6.8~\mathrm{k}\Omega$	4100
8KD - 5	8 kΩ	4200
10KD - 5	10 kΩ	4200
15KD - 5	15 kΩ	4200/4300
20KD - 5	20 kΩ	4200/4400
30KD - 5	30 kΩ	4200/4400
50KD - 5	50 kΩ	4100/4400/4650
100KD - 5	100 kΩ	4100/4650/4850
150KD - 5	150 kΩ	4100/4850
200KD - 5	200 kΩ	4100/4850
250KD - 5	$250~\mathrm{k}\Omega$	4850
330KD - 5	330 kΩ	5000
400KD - 5	$400~\mathrm{k}\Omega$	5000
470KD - 5	470 kΩ	5000/5500
680KD - 5	680 kΩ	5000/5500
1MD - 5	1 ΜΩ	5000/5500

D-3

PART No.	Resistance (25°C)	B Value (25°C/85°C)
100D - 3	100 Ω	3200
500D - 3	500 Ω	3400
1KD - 3	1 kΩ	3650
2KD - 3	2 kΩ	3650
3KD - 3	3 kΩ	3800
5KD - 3	5 kΩ	3800/3970
10KD - 3	10 kΩ	3700/3970
20KD - 3	20 kΩ	4000/4200
30KD - 3	$30 \text{ k}\Omega$	4000/4200
40KD - 3	40 kΩ	4000/4400
50KD - 3	50 kΩ	4000/4400
100KD - 3	100 kΩ	4400/4700
150KD - 3	150 kΩ	4400/4700
200KD - 3	200 kΩ	4400/4700
500KD - 3	500 kΩ	4850
1MD - 3	1 ΜΩ	4850

	NTC 5 KD - 2J RESISTANCE (kΩ)			RESISTANCE RESISTANCE			NTC 10 KD - 3J RESISTANCE			NTC 100 KD - 3J RESISTANCE			
TEMP. (℃)	min.	(kΩ) center	max.	min.	(kΩ) center	max.	min.	(kΩ) center	max.	min.	(kΩ) center	max.	TEMP. (℃)
- 40	76.765	88.067	100.781	725.850	855.174	1,005.019	314.377	368.748	431.440	4,350.999	5,155.043	6,092.402	- 40
-35	59.587	67.827	77.013	516.348	601.971	700.037	225.592	261.906	303.305	3,041.577	3,563.964	4,165.629	- 35
-30	46.592	52.632	59.308	371.682	428.932	493.764	163.927	188.444	216.087	2,153.051	2,496.021	2,886.390	- 30
-25	36.690	41.142	46.019	270.582	309.208	352.466	120.542	137.259	155.904	1,542.412	1,769.760	2,025.541	-25
- 20	29.093	32.389	35.969	199.112	225.388	254.494	89.642	101.143	113.835	1,117.623	1,269.645	1,438.739 1,033.795	-20 -15
-15 -10	23.223 18.658	25.675 20.489	28.315 22.443	148.032	166.039 123.559	185.769 137.022	67.378 51.158	75.354 56.729	84.064 62.750	818.671 605.934	921.118 675.445	751.047	-15 -10
- 5	15.085	16.456	17.908	84.228	92.839	102.076	39.218	43.133	47.620	452.937	500.372	551.393	- 5
0	12.270	13.300	14.381	64.405	70.403	76.768	30.340	33.105	36.032	341.784	374.305	408.894	0
5	10.038	10.814	11.621	49.670	53.861	58.260	23.677	25.637	27.690	260.245	282.615	306.140	5
10	8.260	8.844	9.447	38.620	41.554	44.600	18.630	20.023	21.467	199.874	215.290	231.315	10
15 20	6.833 5.683	7.274 6.015	7.724 6.351	30.264 23.894	32.319 25.330	34.427 26.786	14.774 11.805	15.766 12.510	16.782 13.224	154.777 120.803	165.401 128.110	176.313 135.518	15 20
25	4.750	5.000	5.250	19.000	20.000	21.000	9.500	10.000	10.500	95.000	100.000	105.000	25
30	3.947	4.177	4.410	15.004	15.903	16.813	7.597	8.049	8.507	74.171	78.640	83.169	30
35	3.296	3.507	3.722	11.931	12.731	13.550	6.118	6.523	6.937	58.336	62.285	66.335	35
40	2.766	2.958	3.155	9.552	10.258	10.989	4.959	5.320	5.693	46.205	49.669	53.259	40
45	2.332	2.506	2.687	7.695	8.317	8.965	4.045	4.365	4.699	36.844	39.868	43.032	45
50 55	1.975 1.680	2.133 1.823	2.298 1.973	6.238 5.087	6.783 5.564	7.357 6.071	3.320 2.740	3.603 2.991	3.901 3.256	29.570 23.879	32.202 26.167	34.982 28.603	50 55
60	1.435	1.564	1.701	4.171	4.589	5.036	2.740	2.496	2.732	19.398	21.387	23.519	60
65	1.231	1.348	1.472	3.439	3.805	4.199	1.898	2.093	2.304	15.849	17.576	19.443	65
70	1.060	1.165	1.278	2.856	3.171	3.519	1.591	1.765	1.952	13.020	14.522	16.157	70
75	0.915	1.011	1.114	2.374	2.656	2.963	1.341	1.494	1.661	10.753	12.060	13.493	75
80	0.794	0.881	0.974	1.987	2.234	2.506	1.135	1.271	1.420	8.925	10.065	11.322	80
85 90	0.691	0.770	0.855 0.753	1.671	1.888 1.603	2.128 1.815	0.965 0.825	1.086 0.932	1.219 1.051	7.445 6.239	8.440 7.109	9.544 8.081	85 90
95	0.529	0.594	0.753	1.412	1.366	1.555	0.823	0.803	0.909	5.252	6.015	6.871	95
100	0.465	0.524	0.589	1.020	1.169	1.337	0.609	0.694	0.790	4.440	5.110	5.867	100
105	0.410	0.464	0.523	0.872	1.004	1.154	0.526	0.603	0.689	3.770	4.359	5.029	105
110	0.363	0.411	0.466	0.749	0.866	0.999	0.457	0.525	0.602	3.214	3.734	4.327	110
115	0.322	0.366	0.416	0.645	0.750	0.869	0.397	0.459	0.529	2.750	3.210	3.737	115
120	0.286	0.327	0.372	0.558	0.651	0.758	0.347	0.403	0.466	2.363	2.769	3.238	120
	β (25/85	5) = 3300)°k ±3%	β (25/	(85) = 4200)°k±3%	β (25/8	85) = 3970)°k±3%	β (25/8	85) = 4400	°k±3%	
		C 10 KC RESISTANO	-	N ⁻	TC 50 KD RESISTANC		NTO	C 150 KD RESISTANC	,		C 470 KD RESISTANCE	-5J	
TEMP.	I	RESISTAN((kΩ)	CE		RESISTANC (kΩ)	E		$\begin{array}{c} \text{RESISTANC} \\ \text{(k}\Omega) \end{array}$	E		RESISTANCE (kΩ)	ŕ	TEMP.
(℃)	min.	RESISTANO (kΩ) center	DE max.	min.	RESISTANC (kΩ) center	E max.	min.	RESISTANC (kΩ) center	E max.	min.	RESISTANCE (kΩ) center	max.	(℃)
	I	RESISTAN((kΩ)	CE		RESISTANC (kΩ)	E	min.	RESISTANC $(k\Omega)$ center 1,1777.577	E max.	min. 307.566	RESISTANCE (kΩ)	max. 44,167.422	
(℃) -40	min. 267.215	RESISTANO (kΩ) center 311.858	max. 363.048 266.214	min. 2,729.109	RESISTANC $(k\Omega)$ center 3,256.188	max. 3,875.350	min <u>.</u> 9,815.911	RESISTANC (kΩ) center 1,1777.577 7819.143	max. 14,095.946	min. 307.566 20,671.801	RESISTANCE $(k\Omega)$ center 36,903.179	max. 44,167.422 28,964.641	(℃) -40
(℃) -40 -35	min. 267.215 199.515 149.834 113.194	RESISTANO $(k\Omega)$ center 311.858 230.753 171.765 128.642	max. 363.048 266.214 196.414 145.832	min. 2,729.109 1,866.595	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732	max. 3,875.350 2,589.022	min. 9,815.911 6,597.369 4,497.369 3,107.395	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447	max. 14,095.946 9,244.013 6,153.961 4,155.861	min. 307.566 20,671.801 14,091.782	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041	max. 44,167.422 28,964.641 19,282.449 13,021.720	(℃) -40 -35
(°C) -40 -35 -30 -25 -20	min. 267.215 199.515 149.834 113.194 86.029	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944	max. 363.048 266.214 196.414 145.832 108.969	min. 2,729.109 1,866.595 1,293.941 908.522 645.728	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849	max. 3,875.350 2,589.022 1,754.513 1,205.252 838.726	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722	$\begin{array}{c} \text{RESISTANC} \\ \text{($k\Omega$)} \\ \text{center} \\ 1,1777.577 \\ 7819.143 \\ 5267.447 \\ 3598.092 \\ 2490.496 \end{array}$	max. 14,095.946 9,244.013 6,153.961 4,155.861 2,844.992	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566	max. 44,167,422 28,964,641 19,282,449 13,021,720 8,914,321	(℃) -40 -35 -30 -25 -20
(°C) -40 -35 -30 -25 -20 -15	min. 267.215 199.515 149.834 113.194 86.029 65.780	RESISTANO $(k\Omega)$ center 311.858 230.753 171.765 128.642 96.944 73.513	max. 363.048 266.214 196.414 145.832 108.969 81.949	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452	max. 3,875.350 2,589.022 1,754.513 1,205.252 838.726 590.905	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837	max. 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157	-40 -35 -30 -25 -20 -15
-40 -35 -30 -25 -20 -15	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602	(kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564	max, 3,875.350 2,589.022 1,754.513 1,205.252 838.726 590.905 421.231	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299	max. 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678	(°C) -40 -35 -30 -25 -20 -15 -10
-40 -35 -30 -25 -20	min. 267.215 199.515 149.834 113.194 86.029 65.780	RESISTANO $(k\Omega)$ center 311.858 230.753 171.765 128.642 96.944 73.513	max. 363.048 266.214 196.414 145.832 108.969 81.949	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452	max. 3,875.350 2,589.022 1,754.513 1,205.252 838.726 590.905	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837	max. 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157	-40 -35 -30 -25 -20 -15
-40 -40 -35 -30 -25 -20 -15 -10 -5 0	min, 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873	RESISTANG (kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515	max. 14,095.946 9,244.013 6,153.961 4,155.861 2,844.992 1,973.027 1,385.321 984.198 707.118 513.517	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335	max. 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824	-40 -40 -35 -30 -25 -20 -15 -10
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803	RESISTANO (kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337	RESISTANC ($k\Omega$) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534	max. 3,875.350 2,589.022 1,754.513 1,205.252 838.726 590.905 421.231 303.663 221.263 162.876 121.072	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085	max. 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142	max, 3,875.350 2,589.022 1,754.513 1,205.252 838.726 590.905 421.231 303.663 221.263 162.876 121.072 90.839	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5
(°C) -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 25.856 20.215 15.897 12.573	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245	RESISTANC ($k\Omega$) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 2,215.638 1,609.020 1,180.500 874.606 654.052	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142	max, 3,875.350 2,589.022 1,754.513 1,205.252 838.726 590.905 421.231 303.663 221.263 162.876 121.072 90.839	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897 12.573 10.000	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500	RESISTANC ($k\Omega$) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840	RESISTANα (kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166	RESISTANC ($k\Omega$) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612	min, 9,815,911 6,597,369 4,497,369 3,107,395 2,174,722 1,540,688 1,104,279 800,312 586,183 433,700 323,988 244,266 185,786 142,500 108,441 83,199 64,334	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164	max. 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45	min, 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906	RESISTANα (kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897 12.573 10.000 6.429 5.195 4.220	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471	-40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169	RESISTANα (kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195 4.220 3.444	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443 16,424	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50
(°C) -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897 12.573 10.000 7.996 4.220 3.444 2.825	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 32,5612 20,443 16,424 13,277	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 69.307 54.389 42.980 34.192	E max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 2678.748 217.164 170.420 134.673 107.138	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169	RESISTANα (kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195 4.220 3.444	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443 16,424	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60
(°C) -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195 4.220 3.444 2.825 2.328	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 32,5612 20,443 16,424 13,277 10,796	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714	RESISTANC $(k\Omega)$ center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980 34.192 27.376	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,7843.35 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597 94.785	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117 1.742 1.440 1.196	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195 4.220 3.444 2.825 2.328 1.927 1.602	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553 2.125 1.777 1.492	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858 7.155 5.813 4.749	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118 9.791 7.958 6.505 5.346	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443 16,424 13,277 10,796 8,830 7,261 6,002	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714 19.780 15.929 12.902	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980 34.192 27.376 22.054 17.872	max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250 24,528 20,002 16,402	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437 61.980 49.910 40.427	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780 69.104 56.000 45.639	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597 94.785 76.855 62.675 51.393	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117 1.742 1.440 1.196 0.997	RESISTANα (kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195 4.220 3.444 2.825 2.328 1.927 1.602 1.337	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553 2.125 1.777 1.492 1.257	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858 7.155 5.813 4.749 3.901	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118 9.791 7.958 6.505 5.346 4.416	max. 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443 16,424 13,277 10,796 8,830 7,261 6,002 4,987	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714 19.780 15.929 12.902 10.509	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980 34.192 27.376 22.054 17.872 14.565 11.935	E max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250 24,528 20,002 16,402 13,521	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437 61.980 49.910 40.427 32.930	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780 69.104 56.000 45.639 37.398	max. 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597 94.785 76.855 62.675 51.393 42.366	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85	min, 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117 1.742 1.440 1.196 0.997 0.835	RESISTANα (kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897 12.573 10.000 6.429 5.195 4.220 3.444 2.825 2.328 1.927 1.602 1.337 1.121 0.944	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553 2.125 1.777 1.492 1.257 1.064	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858 7.155 5.813 4.749 3.901 3.221	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118 9.791 7.958 6.505 5.346 4.416 3.667	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443 16,424 13,277 10,796 8,830 7,261 6,002 4,987 4,164	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714 19.780 15.929 12.902 10.509 8.607	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980 34.192 27.376 22.054 17.872 14.565 11.935 9.831	E max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250 24,528 20,002 16,402 13,521 11,202	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437 61.980 49.910 40.427 32.930 26.969	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780 69.104 56.000 45.639 37.398 30.806	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597 94.785 76.855 62.675 51.393 42.366 35.102	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85
(°C) -40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117 1.742 1.440 1.196 0.997 0.835 0.702	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195 4.220 3.444 2.825 2.328 1.927 1.603 1.121 0.944 0.797	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553 2.125 1.777 1.492 1.257 1.064 0.903	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858 7.155 5.813 4.749 3.901 3.221 2.672	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118 9.791 7.958 6.505 5.346 4.416 3.667 3.059	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443 16,424 13,277 10,796 8,830 7,261 6,002 4,987 4,164 3,493	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714 19.780 15.929 12.902 10.509 8.607 7.085	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 1971.75 150.000 115.060 69.307 54.389 42.980 34.192 27.376 22.054 17.872 14.565 11.935 9.831 8.139	E max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250 24,528 20,002 16,402 13,521 11,202 9,327	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437 61.980 49.910 40.427 32.930 26.969 22.201	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780 69.104 56.000 45.639 37.398 30.806 25.505	max, 44,167,422 28,964,641 19,282,449 13,021,720 8,914,321 6,182,157 4,340,678 3,083,824 2,215,638 1,609,020 1,180,500 874,606 654,052 493,500 381,573 297,309 233,365 184,471 146,810 117,597 94,785 76,855 62,675 51,393 42,366 35,102 29226	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85	min, 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117 1.742 1.440 1.196 0.997 0.835	RESISTANα (kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897 12.573 10.000 6.429 5.195 4.220 3.444 2.825 2.328 1.927 1.602 1.337 1.121 0.944	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553 2.125 1.777 1.492 1.257 1.064	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858 7.155 5.813 4.749 3.901 3.221	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118 9.791 7.958 6.505 5.346 4.416 3.667	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443 16,424 13,277 10,796 8,830 7,261 6,002 4,987 4,164	min. 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714 19.780 15.929 12.902 10.509 8.607	RESISTANC ($k\Omega$) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980 34.192 27.376 22.054 17.872 14.565 11.935 9.831	E max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250 24,528 20,002 16,402 13,521 11,202	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437 61.980 49.910 40.427 32.930 26.969	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780 69.104 56.000 45.639 37.398 30.806	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597 94.785 76.855 62.675 51.393 42.366 35.102	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117 1.742 1.440 1.196 0.997 0.835 0.702	RESISTAN((kΩ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 33.270 25.856 20.215 15.897 12.573 10.000 7.996 4.220 3.444 2.825 2.328 1.927 1.602 1.337 1.121 0.944 0.797 0.676	max. 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553 2.125 1.777 1.492 1.257 1.064 0.903 0.770	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858 7.155 5.813 4.749 3.901 3.221 2.672 2.228	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118 9.791 7.958 6.505 5.346 4.416 3.667 3.059 2.564	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443 16,424 13,277 10,796 8,830 7,261 6,002 4,987 4,164 3,493 2,943	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714 19.780 15.929 12.902 10.509 8.607 7.085 5.862	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 69.307 54.389 42.980 34.192 27.376 22.054 17.872 14.565 11.935 9.831 8.139 6.771	E max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250 24,528 20,002 16,402 13,521 11,202 9,327 7,803	min. 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437 61.980 49.910 40.427 32.930 26.969 22.201 18.368	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780 69.104 56.000 45.639 37.398 30.806 25.505 21.218	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597 94.785 76.855 62.675 51.393 42.366 35.102 29226 24.449	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117 1.742 1.440 1.196 0.997 0.835 0.702 0.593 0.502 0.427 0.364	RESISTANO (k\Omega) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195 4.220 3.444 2.825 2.328 1.927 1.602 1.337 1.121 0.944 0.797 0.676 0.576 0.492 0.422	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553 2.125 1.777 1.492 1.257 1.064 0.903 0.770 0.659 0.565 0.487	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858 7.155 5.813 4,749 3.901 3.221 2.672 2.228 1.866 1.570 1.326	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118 9.791 7.958 6.505 5.346 4.416 3.667 3.059 2.564 2.159 1.825 1.550	max. 3,875.350 2,589.022 1,754.513 1,205.252 838.726 590.905 421.231 303.663 221.263 162.876 121.072 90.839 68.765 52.500 41.030 32.303 25.612 20.443 16.424 13.277 10.796 8.830 7.261 6.002 4.987 4.164 3.493 2.943 2.491 2.117 1.806	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714 19.780 15.929 12.902 10.509 8.607 7.085 5.862 4.873 4.070 3.415	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980 34.192 27.376 22.054 17.872 14.565 11.935 9.831 8.139 6.771 5.660 4.752 4.007	E max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250 24,528 20,002 16,402 13,521 11,202 9,327 7,803 6,557 5,534 4,690	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437 61.980 49.910 40.427 32.930 26.969 22.201 18.368 15.271 12.754 10.700	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,7843.35 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780 69.104 56.000 45.639 37.398 30.806 25.505 21.218 17.735 14.890 12.556	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597 94.785 76.855 62.675 51.393 42.366 35.102 29226 24.449 20.546 17.341 14.698	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115	min, 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117 1.742 1.440 1.196 0.997 0.835 0.702 0.593 0.502 0.427 0.364 0.312	RESISTANO (kQ) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195 4.220 3.444 2.825 2.328 1.927 1.602 1.337 1.121 0.944 0.797 0.676 0.576 0.492 0.422 0.363	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553 2.125 1.777 1.492 1.257 1.064 0.903 0.770 0.659 0.565 0.487 0.421	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858 7.155 5.813 4,749 3.901 3.221 2.672 2.228 1.866 1.570 1.326 1.125	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118 9.791 7.958 6.505 5.346 4.416 3.667 3.059 2.564 2.159 1.825 1.550 1.321	max, 3,875,350 2,589,022 1,754,513 1,205,252 838,726 590,905 421,231 303,663 221,263 162,876 121,072 90,839 68,765 52,500 41,030 32,303 25,612 20,443 16,424 13,277 10,796 8,830 7,261 6,002 4,987 4,164 3,493 2,943 2,491 2,117 1,806 1,547	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714 19.780 15.929 12.902 10.509 8.607 7.085 5.862 4.873 4.070 3.415 2.877	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980 34.192 27.376 22.054 17.872 14.565 11.935 9.831 8.139 6.771 5.660 4.752 4.007 3.393	E max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250 24,528 20,002 16,402 13,521 11,202 9,327 7,803 6,557 5,534 4,690 3,992	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437 61.980 49.910 40.427 32.930 26.969 22.201 18.368 15.271 12.754 10.700 9.016	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,784.335 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780 69.104 56.000 45.639 37.398 30.806 25.505 21.218 17.735 14.890 12.556 10.633	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597 94.785 76.855 62.675 51.393 42.366 35.102 29226 24.449 20.546 17.341 14.698 12.508	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115
-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110	min. 267.215 199.515 149.834 113.194 86.029 65.780 50.602 39.160 30.487 23.873 18.803 14.893 11.862 9.500 7.546 6.027 4.840 3.906 3.169 2.584 2.117 1.742 1.440 1.196 0.997 0.835 0.702 0.593 0.502 0.427 0.364	RESISTANO (k\Omega) center 311.858 230.753 171.765 128.642 96.944 73.513 56.094 43.067 25.856 20.215 15.897 12.573 10.000 7.996 6.429 5.195 4.220 3.444 2.825 2.328 1.927 1.602 1.337 1.121 0.944 0.797 0.676 0.576 0.492 0.422	max, 363.048 266.214 196.414 145.832 108.969 81.949 62.026 47.246 36.216 27.934 21.679 16.925 13.292 10.500 8.453 6.840 5.563 4.547 3.734 3.081 2.553 2.125 1.777 1.492 1.257 1.064 0.903 0.770 0.659 0.565 0.487	min. 2,729.109 1,866.595 1,293.941 908.522 645.728 464.309 337.577 248.041 184.098 137.959 104.337 79.604 61.245 47.500 36.561 28.362 22.166 17.448 13.829 11.033 8.858 7.155 5.813 4,749 3.901 3.221 2.672 2.228 1.866 1.570 1.326	RESISTANC (kΩ) center 3,256.188 2,201.083 1,508.617 1,047.732 736.849 524.452 377.564 274.790 202.080 150.089 112.534 85.142 64.977 50.000 38.780 30.306 23.856 18.910 15.089 12.118 9.791 7.958 6.505 5.346 4.416 3.667 3.059 2.564 2.159 1.825 1.550	max. 3,875.350 2,589.022 1,754.513 1,205.252 838.726 590.905 421.231 303.663 221.263 162.876 121.072 90.839 68.765 52.500 41.030 32.303 25.612 20.443 16.424 13.277 10.796 8.830 7.261 6.002 4.987 4.164 3.493 2.943 2.491 2.117 1.806	min, 9,815.911 6,597.369 4,497.369 3,107.395 2,174.722 1,540.688 1,104.279 800.312 586.183 433.700 323.988 244.266 185.786 142.500 108.441 83.199 64.334 50.121 39.329 31.073 24.714 19.780 15.929 12.902 10.509 8.607 7.085 5.862 4.873 4.070 3.415	RESISTANC (kΩ) center 1,1777.577 7819.143 5267.447 3598.092 2490.496 1745.691 1238.392 888.617 644.624 472.515 34.981 261.443 197.175 150.000 115.060 88.962 69.307 54.389 42.980 34.192 27.376 22.054 17.872 14.565 11.935 9.831 8.139 6.771 5.660 4.752 4.007	E max. 14,095,946 9,244,013 6,153,961 4,155,861 2,844,992 1,973,027 1,385,321 984,198 707,118 513,517 376,755 279,129 208,740 157,500 121,778 94,885 74,478 58,873 46,854 37,531 30,250 24,528 20,002 16,402 13,521 11,202 9,327 7,803 6,557 5,534 4,690	min, 307.566 20,671.801 14,091.782 9,736.520 6,814.136 4,827.494 3,460.077 2,507.647 1,836.709 1,358.928 1,015.162 765.367 582.131 446.500 339.783 260.693 201.582 157.046 123.231 97.364 77.437 61.980 49.910 40.427 32.930 26.969 22.201 18.368 15.271 12.754 10.700	RESISTANCE (kΩ) center 36,903.179 24,500.039 16,504.698 11,274.041 7,803.566 5,469.837 3,880.299 2,7843.35 2,019.822 1,480.548 1,096.085 819.190 617.817 470.000 360.523 278.748 217.164 170.420 134.673 107.138 85.780 69.104 56.000 45.639 37.398 30.806 25.505 21.218 17.735 14.890 12.556	max, 44,167.422 28,964.641 19,282.449 13,021.720 8,914.321 6,182.157 4,340.678 3,083.824 2,215.638 1,609.020 1,180.500 874.606 654.052 493.500 381.573 297.309 233.365 184.471 146.810 117.597 94.785 76.855 62.675 51.393 42.366 35.102 29226 24.449 20.546 17.341 14.698	-40 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110