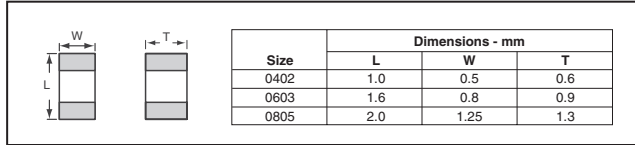




Surface Mount NTC Thermistors for Temperature Measurement

- Features:**
- Inner electrodes • Excellent long-term aging stability in high-temperature and high humidity environments
 - Super resistance stability during soldering (change ≤1%)
- Applications:**
- Temperature measurement and compensation in mobile phone applications (battery pack, TCXO, LCD)
 - Data systems • Automotive electronics
- Specifications:**
- Climatic category: 55/125/56 • Maximum power: 150mW (0402); 180mW (0603); 210mW (0805)
 - Resistance Tolerance: ±5%



Size	Res. @ 25°C (Ω)	B25/85 (K)	Digi-Key Part No.	Cut Tape Pricing	Tape and Reel Qty.	Pricing	Epcos Part No.
0402	10k	3980	495-2086-1-ND	.34 2.39 14.08	10,000	84.00/M	B57221V22103J60
	22k	4548	495-3041-1-ND	.27 1.91 11.25	10,000	68.00/M	B57261V2223J60
0603	220	3540	495-3072-1-ND	.44 3.14 18.45	4,000	118.00/M	B57311V2221J60
	220	3540	495-3073-1-ND‡	.37 2.61 15.33	4,000	98.00/M	B57311V2221K60
0805	330	3540	495-3074-1-ND	.59 4.20 24.70	3,000	158.00/M	B57411V2221J62
	330	3540	495-3075-1-ND	.59 4.20 24.70	3,000	158.00/M	B57411V2331J62
0805	10k	3980	495-2116-1-ND	.59 4.20 24.70	4,000	158.00/M	B57421V22103J62

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Tolerance ±10%

NTC Thermistor Probes

- B57020**
- Features:**
- Thermistor in molded plastic case • PVC insulated white connecting cable, UL approval (E252167)
- Applications:**
- Cabinet and evaporator in refrigerators and deep freezers
- Specifications:**
- Climatic category: 40/80/56 • Maximum power: 350mW
- B57500**
- Features:**
- Epoxy resin encapsulation • PVC insulated black wire with tinned ends 26AWG
- Applications:**
- Air sensor for air conditioning (NOT FOR USE IN EVAPORATOR)
- Specifications:**
- Climatic category: 30/100/56 • Maximum power: 60mW • Test voltage: 1.25kVAC for 1 seconds
- B57703**
- Features:**
- High accuracy • Easy mounting • Good thermal coupling through metal tag • Encapsulated in metal tag case • PTFE insulated leads of silver-plated nickel wire, 30AWG • UL Approval (E69802)
- Applications:**
- Surface temperature measurement (housing and pipes)
- Specifications:**
- Climatic category: 55/125/56 • Maximum power: 150mW • Test voltage: 1kVAC

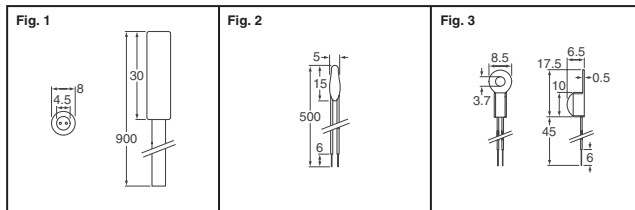


Fig.	Res. @ 25°C (kΩ)	B25/100 (K)	Resistance Tolerance	Digi-Key Part No.	Price Each	Epcos Part No.
1	5	3980	±2%	495-2075-ND	5.00 4.38 3.44	B57020M2502A017
2	10	3988	±3%	495-2172-ND	4.00 3.50 2.75	B57500M0103A005
3	5	3988	±2%	495-2170-ND	4.08 3.57 2.81	B57703M0502G040
	10	3988	±2%	495-2169-ND	4.08 3.57 2.81	B57703M0103G040

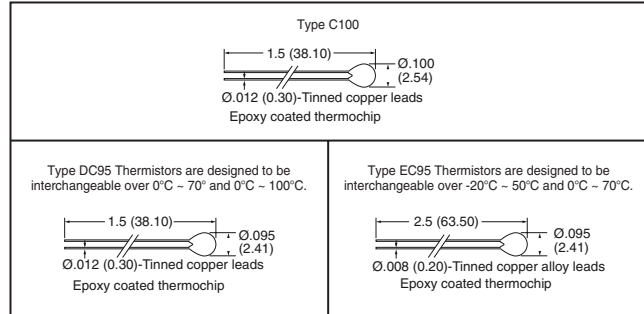


NTC Bead Thermistors

THERMAL AND ELECTRICAL PROPERTIES: • Dissipation Constant: (Still Air) 1 mW/°C, (Stirred Oil) 8 mW/°C • Thermal Time Constant: (Still Air) 10 Seconds, (Stirred Oil) 1 Second • Maximum Power Rating: .075 Watts (Derated from 100% at 25°C - 0% at 100°C)

Thermometrics Type C100 Thermochips are low cost, epoxy coated chip thermistors which represent the highest level of thermistor technology. Thermometrics exclusive "state of the art" materials processing techniques have been proven through extensive field use and long term testing to provide stable, rugged, easy handling thermistors suitable for applications in the temperature range of -80°C - 150°C. Best stability is achieved at temperatures not exceeding 105°C.

Type EC95 and Type DC95 Thermistors may be used at temperatures as low as -80°C and as high as 150°C, however, best overall stability is achieved with exposure or storage temperatures lower than 105°C.



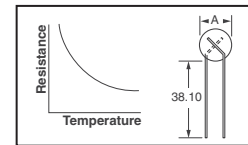
Res. @ 25°C (Ω)	Res. Ratio§	Digi Key Part No.	Price Each	GE Sensing Part No.
10k	9.06	235-1001-ND	6.45 5.08 4.03 2.99	C100F103G
10k	9.06	235-1002-ND	4.46 3.52 2.79 2.07	C100F103J
10k	7.60	235-1003-ND	4.46 3.52 2.79 2.07	C100Y103J
10k	9.06	235-1004-ND	7.16 5.64 4.48 3.31	DC95F103W
22k	9.06	235-1005-ND	7.16 5.64 4.48 3.31	DC95F202W
2252	9.06	235-1006-ND	7.16 5.64 4.48 3.31	DC95F232W
5k	9.06	235-1007-ND	7.16 5.64 4.48 3.31	DC95F502W
100k	10.45	235-1008-ND	7.16 5.64 4.48 3.31	DC95G104W
50k	10.45	235-1009-ND	7.16 5.64 4.48 3.31	DC95G503W
10k	9.06	235-1010-ND	7.16 5.64 4.48 3.31	EC95F103W
3k	9.06	235-1012-ND	7.16 5.64 4.48 3.31	EC95F302W
100k	10.45	235-1013-ND	6.65 5.24 4.16 3.08	EC95G104W
50k	10.45	235-1014-ND	7.16 5.64 4.48 3.31	EC95G503W
30k	8.69	235-1015-ND	6.82 5.37 4.26 3.16	EC95H303W

§ 0°C/50°C Ratio

NTC Disc Thermistors

NTC (Negative Temperature Coefficient) Disc Thermistors decrease in resistance as temperature increases.

- Temperature Coefficients Range: -3.4%/°C - -5%/°C @ 25°C
- Maximum Operating Temperature: 150°C
- Tolerance: ±20% 100-5Ω; ±10% 1K - 100KΩ



Res. @ 25°C (Ω)	Res. Ratio ▲	Dim. A (mm)	Digi-Key Part No.	Price Each	GE Sensing Part No.
100	5.53	2.5	KC001N-ND◆	2.66 2.40 1.89 1.50	RL1004-65.6-59-D1
50	5.53	6.5	KC012N-ND	1.94 1.75 1.38 1.10	RL2007-32.8-59-D1
25	5.53	6.5	KC011N-ND◆	1.94 1.75 1.38 1.10	RL2004-16.4-59-D1
5	5.53	10.0	KC024N-ND◆	2.21 1.99 1.57 1.25	RL4504-3.28-59-D1
1k	6.85	2.8	KC003N-ND◆	2.60 2.34 1.84 1.46	RL1007-624-73-D1
500	6.85	2.5	KC002N-ND◆	2.60 2.34 1.84 1.46	RL1003-312-73-D1
300	6.85	6.5	KC015N-ND◆	1.89 1.70 1.34 1.06	RL2008-187-73-D1
200	6.85	6.5	KC014N-ND◆	1.89 1.70 1.34 1.06	RL2006-125-73-D1
100	6.85	6.5	KC013N-ND◆	1.89 1.70 1.34 1.06	RL2003-62.4-73-D1
50	6.85	7.5	KC022N-ND	1.96 1.76 1.39 1.10	RL3504-31.2-73-D1
10k	9.60	2.5	KC025N-ND◆	2.60 2.34 1.84 1.46	RL1005-5744-103-D1
5k	9.10	2.5	KC005N-ND◆	2.60 2.34 1.84 1.46	RL1004-2910-97-D1
3k	9.10	2.5	KC004N-ND◆	2.60 2.34 1.84 1.46	RL1003-1746-97-D1
2k	9.10	6.5	KC017N-ND◆	1.90 1.71 1.35 1.07	RL2007-1164-97-D1
1k	9.10	6.5	KC016N-ND	1.90 1.71 1.35 1.07	RL2004-582-97-D1
10k	11.41	7.2	KC018N-ND◆	4.69 4.22 3.32 2.64	RL2012-5506-120-D1
100k	12.90	2.7	KC009N-ND	2.81 2.53 2.00 1.58	RL1006-53.4K-140-D1
50k	12.90	2.5	KC008N-ND◆	2.81 2.53 2.00 1.58	RL1003-26.7K-140-D1
25k	12.90	6.5	KC019N-ND	2.16 1.94 1.53 1.22	RL2006-13.3K-140-D1
200k	13.82	2.5	KC010N-ND	2.81 2.53 2.00 1.58	RL1004-104.7K-155-D1
100k	13.82	6.5	KC020N-ND◆	2.16 1.94 1.53 1.22	RL2008-52.3K-155-D1

◆ RoHS Compliant ▲ Resistance Ratio - ratio of zero power resistance @ 0°C to zero power resistance @ 50°C; AWG ◆ D.C. - Dissipation Constant (MW/°C)



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