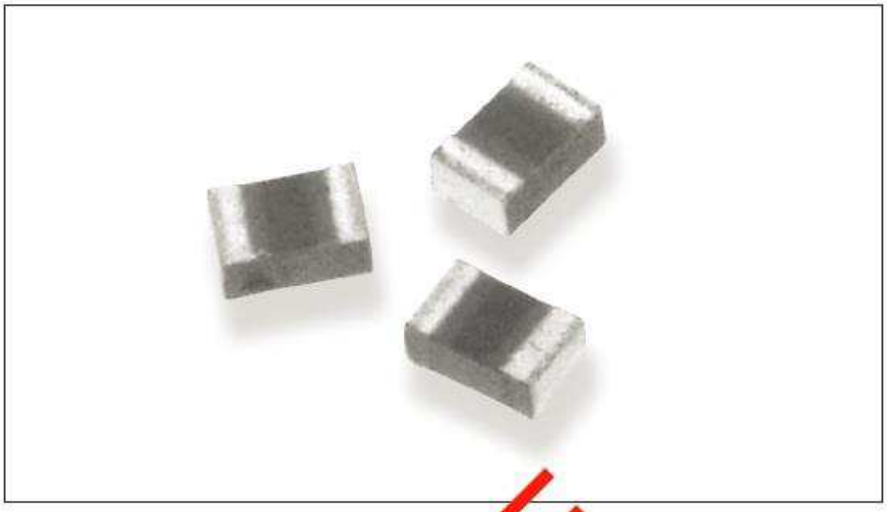
Type 8158 Series

Key Features

- Choice of Packages (0402, 0603, 0805, 1206)
- Suitable for Pick and Place
- Operating Temperature -40°C to +125°C
- Wide Value Range
- Embossed Tape on 7" Reels



TE Connectivity are pleased to offer this innovative range of Micro Chip Thermistors in 0402, 0603, 0805 and 1206 packages. These special Surface Mount N.T.C. devices are available in initial resistances between 40 ohms and 500 ohms, with a tolerance of 5% and a B constant of either 5% or 3%, with 10K available in 2% or 1% for 0603 and 0402 packaged devices. This series has a wide operating temperature range, -40°C to +125°C. The individual chip thermistors are not value coded.

Characteristics - 04:02 Package

Part Number	Resistance (R25°C)	B-Value R25/85 (K)	Rated Wattage (mW)	Operating Temperature
81581E400J280J	40R	2800	40	-40°C to +125°C
81581E202J410J	2K0	4100	40	-40°C to +125°C
81581E302J410J	3K0	4100	40	-40°C to +125°C

Characteristics - 06:03 Package

Part Number	Resistance (R25°C)	B-Value R25/85 (K)	Rated Wattage (mW)	Operating Temperature
81581J400J280J	40R	2800	150	-40°C to +125°C
81581J101J280J	100R	2800	150	-40°C to +125°C
81581J501J325J	500R	3250	150	-40°C to +125°C
81581J102J325J	1K0	3250	150	-40°C to +125°C
81581J202J410J	2K0	4100	150	-40°C to +125°C
81581J302J410J	3K0	4100	150	-40°C to +125°C
81581J502J355J	5K0	3550	150	-40°C to +125°C
81581J103J375J	10K	3750	150	-40°C to +125°C
81581J153J380J	15K	3800	150	-40°C to +125°C
81581J203J380J	20K	3800	150	-40°C to +125°C
81581J303J400J	30K	4000	150	-40°C to +125°C
81581J503J400J	50K	4000	150	-40°C to +125°C
81581J104J425J	100K	4150	150	-40°C to +125°C
81581J154J425J	150K	4250	150	-40°C to +125°C
81581J204J425J	200K	4250	150	-40°C to +125°C

Characteristics - 08:05 Package

Part Number	Resistance (R25°C)	B-Value R25/85 (K)	Rated Wattage (mW)	Operating Temperature
81582A400J280J	40R	2800	300	-40°C to +125°C
81582A101J280J	100R	2800	300	-40°C to +125°C
81582A501J325J	500R	3250	300	-40°C to +125°C
81582A102J325J	1K0	3250	300	-40°C to +125°C
81582A202J410J	2K0	4100	300	-40°C to +125°C
81582A302J410J	3K0	4100	300	-40°C to +125°C
81582A502J355J	5K0	3550	300	-40°C to +125°C

Type 8158 Series

Characteristics - 08:05 Package

Part Number	Resistance (R25°C)	B-Value R25/85 (K)	Rated Wattage (mW)	Operating Temperature
81582A103J375J	10K	3750	300	-40°C to +125°C
81582A153J400J	15K	4000	300	-40°C to +125°C
81582A203J400J	20K	4000	300	-40°C to +125°C
81582A303J400J	30K	4000	300	-40°C to +125°C
81582A503J400J	50K	4000	300	-40°C to +125°C
81582A104J425J	100K	4250	300	-40°C to +125°C
81582A154J425J	150K	4250	300	-40°C to +125°C
81582A204J425J	200K	4250	300	-40°C to +125°C
81582A504J435J	500K	4350	300	-40°C to +125°C

Characteristics - 12:06 Package

Part Number	Resistance (R25°C)	B-Value R25/85 (K)	Rated Wattage (mW)	Operating Temperature
81582B101J280J	100R	2800	400	-40°C to +125°C
81582B501J325J	500R	3250	400	-40°C to +125°C
81582B102J325J	1K0	3250	400	-40°C to +125°C
81582B202J410J	2K0	4100	400	-40°C to +125°C
81582B302J410J	3K0	4100	400	-40°C to +125°C
81582B502J355J	5K0	3550	400	-40°C to +125°C
81582B103J375J	10K	3750	400	-40°C to +125°C
81582B153J400J	15K	3750	400	-40°C to +125°C
81582B203J400J	20K	4000	400	-40°C to +125°C
81582B303J400J	30K	4000	400	-40°C to +125°C
81582B503J400J	50K	4000	400	-40°C to +125°C
81582B104J425J	100K	4250	400	-40°C to +125°C
81582B154J425J	150K	4250	400	-40°C to +125°C
81582B204J425J	200K	4250	400	-40°C to +125°C
81582B504J435J	500K	4350	400	-40°C to +125°C

OBSOLETE

Dimensions

Case Size	A±0.2	B±0.2	T Max.
0402	1.0	0.5	0.7
0603	1.6	0.8	1.0
0805	2.0	1.25	1.2
1206	3.2	1.6	1.2

How to Order

8158 | 2A | 103 | J | 375 | J

Common Part
8158
Chip Thermistor

Case Size
1E - 0402 Package
1J - 0603 Package
2A - 0805 Package
2B - 1206 Package

Resistance Value
The first two digits are signifigant figures of resistance value and the third denotes the number of zeros following.
e.g. 100R: 101
10K: 103
100K: 104

Tolerance
J - 5%

B Constant 25/85 (K)
280 - 2800
325 - 3250
355 - 3550
375 - 3750
400 - 4000
410 - 4100
425 - 4250
435 - 4350

B Constant Tolerance
J - 5%
E - 3%

Dimensions in millimetres unless otherwise specified

Dimensions Shown for reference purposes only. Specifications subject to change