



Type 8158 Series



Tyco Electronic Components are pleased to offer this innovative range of Micro Chip Thermistors in 0402, 0603, 0805 and 1206 packages. These specialist Surface Mount N.T.C. devices are available in initial resistances between 40 ohms and 500K 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.

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

Thermistors For Surface Mount



Type 8158 Series

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

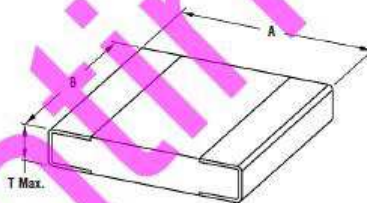
Part Number	Resistance (R25°C)	B-Value R25/85 (K)	Rated Wattage (mW)	Operating Temperature
81582A400J280J	40R	2800	300	-40°C to +125°C
81582A101J280J	100R	2800	300	-40°C to +125°C
81582A501J325J	500R	3250	300	-40°C to +125°C
81582A102J325J	1K0	3250	300	-40°C to +125°C
81582A202J410J	2K0	4100	300	-40°C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

Type 8158 Series

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

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	Case Size	Resistance Value	Tolerance	B Constant 25/85 (K)	B Constant Tolerance
8158 Chip Thermistor	1E - 0402 Package 1J - 0603 Package 2A - 0805 Package 2B - 1206 Package	The first two digits are significant figures of resistance value and the third denotes the number of zeros following. e.g. 100R: 101 10K: 103 100K: 104	J - 5%	280 - 2800 325 - 3250 355 - 3550 375 - 3750 400 - 4000 410 - 4100 425 - 4250 435 - 4350	J - 5% E - 3%