

# MURATA NTC and PTC Thermistors



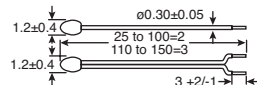
RoHS Compliant This product is RoHS compliant.

## MURATA NTC THERMISTORS, TEMPERATURE SENSOR THERMO STRING TYPE

### Features:

- High accuracy/highly sensitive temp. sensing made possible by small size and high accuracy
- Compatible with 0402 (EIA) size thermistor
- Excellent long time aging stability
- Flexibility and wide variety of lengths (25mm to 150mm)

DIMENSIONS: mm



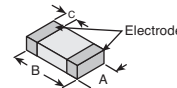
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Murata Part No.	Res. (Ω)	Res. Tol.	B-Constant	Operating Current (mA)	Typ. Dissipation Constant (mW/°C)	Price Each			
							1	50	100	500
81-NXFT15XH103FA2B25	NXFT15XH103FA2B025	10K	±1%	3380K	0.12	1.5	.79	.54	.472	.365
81-NXFT15XH103FA2B50	NXFT15XH103FA2B050	10K	±1%	3380K	0.12	1.5	.79	.54	.472	.365
81-NXFT15XH103FA2B00	NXFT15XH103FA2B100	10K	±1%	3380K	0.12	1.5	.79	.54	.472	.365
81-NXFT15WF104FA2B25	NXFT15WF104FA2B025	100K	±1%	4250K	0.04	1.5	.79	.54	.472	.365
81-NXFT15WF104FA2B50	NXFT15WF104FA2B050	100K	±1%	4250K	0.04	1.5	.79	.54	.472	.365
81-NXFT15WF104FA2B00	NXFT15WF104FA2B100	100K	±1%	4250K	0.04	1.5	.79	.54	.472	.365

## MURATA NTC CHIP THERMISTORS FOR TEMPERATURE COMPENSATION

### Features:

- Excellent solderability and high stability in environment
- Excellent long time aging stability
- Operating Temperature: -40°C to +125°C



For quantities greater than listed, call for quote.

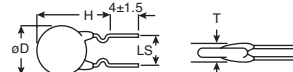
MOUSER STOCK NO.	Murata Part No.	Case Size	Res. (Ω)	Res. Tol.	B-Constant	Operating Current (mA)	Typ. Dissipation Constant (mW/°C)	Dimensions: mm			Price Each			
								A	B	C	1	50	100	500
81-NCP03XH682J05RL	NCP03XH682J05RL	0201	6.8K	5%	3380K	0.38	1.0	0.30±0.03	0.60±0.03	0.15±0.05	.47	.28	.221	.141
81-NCP03XH103J05RL	NCP03XH103J05RL	0201	10K	5%	3380K	0.31	1.0	0.30±0.03	0.60±0.03	0.15±0.05	.45	.28	.215	.137
81-NCP03XH223J05RL	NCP03XH223J05RL	0201	22K	5%	3380K	0.21	1.0	0.30±0.03	0.60±0.03	0.15±0.05	.47	.28	.221	.141
81-NCP03WB473J05RL	NCP03WB473J05RL	0201	47K	5%	4050K	0.14	1.0	0.30±0.03	0.60±0.03	0.15±0.05	.47	.28	.221	.141
81-NCP03WF104J05RL	NCP03WF104J05RL	0201	100K	5%	4250K	0.10	1.0	0.30±0.03	0.60±0.03	0.15±0.05	.45	.28	.215	.137
81-NCP15XM472J03RC	NCP15XM472J03RC	0402	4.7K	5%	3500K	0.46	1.0	0.5±0.05	1.0±0.05	0.25±0.10	.32	.18	.151	.073
81-NCP15XH103J03RC	NCP15XH103J03RC	0402	10K	5%	3380K	0.31	1.0	0.5±0.05	1.0±0.05	0.25±0.10	.32	.18	.151	.073
81-NCP15XV103J03RC	NCP15XV103J03RC	0402	10K	5%	3900K	0.31	1.0	0.5±0.05	1.0±0.05	0.25±0.10	.39	.23	.162	.093
81-NCP15WB473J03RC	NCP15WB473J03RC	0402	47K	5%	4050K	0.14	1.0	0.5±0.05	1.0±0.05	0.25±0.10	.32	.18	.151	.073
81-NCP15WF104J03RC	NCP15WF104J03RC	0402	100K	5%	4250K	0.10	1.0	0.5±0.05	1.0±0.05	0.25±0.10	.32	.18	.151	.073
81-NCP18XM472J03RB	NCP18XM472J03RB	0603	4.7K	5%	3500K	0.46	1.0	0.8±0.15	1.6±0.15	0.2 to 0.6	.56	.338	.231	.133
81-NCP18XH103J03RB	NCP18XH103J03RB	0603	10K	5%	3380K	0.31	1.0	0.8±0.15	1.6±0.15	0.2 to 0.6	.56	.338	.231	.133
81-NCP18XV103J03RB	NCP18XV103J03RB	0603	10K	5%	3900K	0.31	1.0	0.8±0.15	1.6±0.15	0.2 to 0.6	.47	.283	.225	.144
81-NCP18WB153J03RB	NCP18WB153J03RB	0603	15K	5%	3950K	0.25	1.0	0.8±0.15	1.6±0.15	0.2 to 0.6	.47	.283	.225	.144
81-NCP18WB473J03RB	NCP18WB473J03RB	0603	47K	5%	4050K	0.14	1.0	0.8±0.15	1.6±0.15	0.2 to 0.6	.56	.338	.231	.133
81-NCP18WF104J03RB	NCP18WF104J03RB	0603	100K	5%	4250K	0.10	1.0	0.8±0.15	1.6±0.15	0.2 to 0.6	.56	.338	.231	.133
81-NCP21XM472J03RA	NCP21XM472J03RA	0805	4.7K	5%	3500K	0.65	2.0	1.25±0.2	2.0±0.2	0.2 to 0.7	.57	.358	.278	.177
81-NCP21XV103J03RA	NCP21XV103J03RA	0805	10K	5%	3900K	0.44	2.0	1.25±0.2	2.0±0.2	0.2 to 0.7	.57	.358	.278	.177
81-NCP21WB473J03RA	NCP21WB473J03RA	0805	47K	5%	4050K	0.20	2.0	1.25±0.2	2.0±0.2	0.2 to 0.7	.57	.358	.278	.177
81-NCP21WF104J03RA	NCP21WF104J03RA	0805	100K	5%	4250K	0.14	2.0	1.25±0.2	2.0±0.2	0.2 to 0.7	.57	.358	.278	.177

## MURATA POSISTOR® THROUGH-HOLE THERMISTORS

### Features:

- Resistance tol.: ±10%
- Narrow current range
- Quick operating time
- Restores the original low resistance value automatically once the overload is removed
- Non-contact design leads to long life and no noise

DIMENSIONS: mm



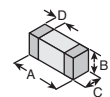
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Murata Part No.	Res. (Ω)	Volt. (max)	Non-Operating Current (mA)	Trip Current (mA)	Max Current (mA)	Dimensions: mm				Price Each			
							øD	T	H	LS	1	50	100	500
81-PTGL12AS0R8K2B	PTGL12AS0R8K2B51B0	0.8	30	685	1352	7000	11.5	3.5	16.5	5.0	1.79	1.19	1.03	.779
81-PTGL09AS1R2K2B	PTGL09AS1R2K2B51B0	1.2	30	556	1097	6000	9.3	3.5	14.3	5.0	1.09	.748	.649	.49
81-PTGL12AS1R2K3B	PTGL12AS1R2K3B51B0	1.2	51	592	1168	5000	11.5	3.5	16.5	5.0	1.73	1.18	1.02	.775
81-PTGL07AS1R8K2B	PTGL07AS1R8K2B51B0	1.8	30	420	829	5000	7.3	3.5	12.3	5.0	.90	.569	.494	.382
81-PTGL09AS2R2K3B	PTGL09AS2R2K3B51B0	2.2	51	412	814	4000	9.3	3.5	14.3	5.0	1.08	.737	.644	.485
81-PTGL12AS2R2K4B	PTGL12AS2R2K4B51B0	2.2	60	439	867	5000	11.5	3.5	16.5	5.0	1.72	1.18	1.02	.771
81-PTGL07AS2R7K2B	PTGL07AS2R7K2B51B0	2.7	30	336	663	4500	7.3	3.5	12.3	5.0	.61	.38	.327	.31
81-PTGL07AS3R3K3B	PTGL07AS3R3K3B51B0	3.3	51	307	606	3000	7.3	3.5	12.3	5.0	.61	.38	.365	.353
81-PTGL09AS3R3K4B	PTGL09AS3R3K4B51B0	3.3	60	333	656	4000	9.3	3.5	14.3	5.0	.95	.60	.517	.423
81-PTGL05AS3R9K2B	PTGL05AS3R9K2B51B0	3.9	30	269	530	3500	5.5	3.5	10.5	5.0	.99	.88	.394	.313
81-PTGL07AS5R6K4N	PTGL07AS5R6K4N51B0	5.6	60	186	368	7	7.3	7.3	12.3	5.0	.61	.381	.327	.259
81-PTGL07AS5R6K4B	PTGL07AS5R6K4B51B0	5.6	60	229	452	7	7.3	7.3	12.3	5.0	.61	.381	.327	.259
81-PTGL12AS4R7K6B	PTGL12AS4R7K6B51B0	4.7	140	310	613	3500	11.5	4.5	16.5	5.0	2.00	1.50	1.37	1.25
81-PTGL05AS6R8K3B	PTGL05AS6R8K3B51B0	6.8	51	197	388	1500	5.5	3.5	10.5	5.0	.58	.36	.312	.247
81-PTGL04AS100K2B	PTGL04AS100K2B51B0	10	30	167	330	2000	4.5	3.5	9.5	5.0	.73	.463	.399	.316
81-PTGL04AS100K2N	PTGL04AS100K2N51B0	10	30	122	240	1500	4.5	3.5	9.5	5.0	.72	.463	.398	.315
81-PTGL04AS100K3B	PTGL04AS100K3B51B0	10	51	168	332	4	4.5	4.5	9.5	5.0	.73	.463	.399	.316
81-PTGL05AS100K4B	PTGL05AS100K4B51B0	10	60	170	335	5	5.5	5.5	10.5	5.0	.83	.527	.455	.352
81-PTGL09AS120K6B	PTGL09AS120K6B51B0	12	140	192	380	2000	9.3	4.5	14.3	5.0	1.28	.87	.756	.571
81-PTGL07AS150K6B	PTGL07AS150K6B51B0	15	140	148	292	1500	7.3	4.5	12.3	5.0	1.08	.674	.587	.454
81-PTGL04AS220K4B	PTGL04AS220K4B51B0	22	60	115	226	1000	4.5	3.5	9.5	5.0	.79	.495	.427	.337
81-PTGL04AS220K4N	PTGL04AS220K4N51B0	22	60	88	175	1000	4.5	3.5	9.5	5.0	.80	.506	.433	.342
81-PTGL04AS560K6B	PTGL04AS560K6B51B0	56	140	74	147	500	5.5	4.5	10.5	5.0	.55	.464	.429	.354

## MURATA POSISTOR® PTC CHIP THERMISTORS CIRCUIT PROTECTION FOR OVERCURRENT PROTECTION

### Features:

- Rapid operation to protect the circuit in an overcurrent condition abnormality such as a short circuit. By removing the overcurrent condition, these products automatically return to the initial condition and can be used repeatedly
- Stable resistance after operation due to ceramic PTC
- 0603 SMD type for reflow soldering
- Lead is not contained in the terminations
- Operating temperature: -10°C to +60°C



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Murata Part No.	Case Size	Res. (Ω)	Volt. Max.	Non-Operating Current (mA)	Trip Current (mA)	Max Current (mA)	Curie Point	Dimensions: mm				Price Each			
									A	B	C	D	1	50	100	500
81-PRG18BC2R2MM1RB	PRG18BC2R2MM1RB	0603	2.2	12	220	600	5000	90°C	1.6±0.15	0.8±0.15	0.8±0.15	0.1 to 0.6	.90	.60	.48	.35
81-PRG18BC3R3MM1RB	PRG18BC3R3MM1RB	0603	3.3	16	180	480	4500	90°C	1.6±0.15	0.8±0.15	0.8±0.15	0.1 to 0.6	.90	.60	.48	.35
81-PRG18BC4R7MM1RB	PRG18BC4R7MM1RB	0603	4.7	20	155	400	5000	90°C	1.6±0.15	0.8±0.15	0.8±0.15	0.1 to 0.6	.90	.60	.48	.35
81-PRG18BC6R8MM1RB	PRG18BC6R8MM1RB	0603	6.8	20	120	320	3500	90°C	1.6±0.15	0.8±0.15	0.8±0.15	0.1 to 0.6	.90	.60	.48	.35
81-PRG18BC1R0MM1RB	PRG18BC1R0MM1RB	0603	1	6	330	850	7500	90°C	1.6±0.15	0.8±0.15	0.8±0.15	0.1 to 0.6	.90	.60	.48	.35
81-PRG18BB330MS1RB	PRG18BB330MS1RB	0603	33	24	36	85	900	100°C	1.6±0.15	0.8±0.15	0.8±0.15	0.1 to 0.6	1.11	.485	.388	.319
81-PRG18BB330MB1RB	PRG18BB330MB1RB	0603	33	24	25	85	900	100°C	1.6±0.15	0.8±0.15	0.8±0.15	0.1 to 0.6	.88	.58	.461	.329
81-PRG18BB470MB1RB	PRG18BB470MB1RB	0603	47	24	20	75	630	100°C	1.6±0.15	0.8±0.15	0.8±0.15	0.1 to 0.6	.88	.58	.461	.329
81-PRG18BB470MS1RB	PRG18BB470MS1RB	0603	47	24	29	61	630	100°C	1.6±0.15	0.8±0.15	0.8±0.15	0.1 to 0.6	1.11			