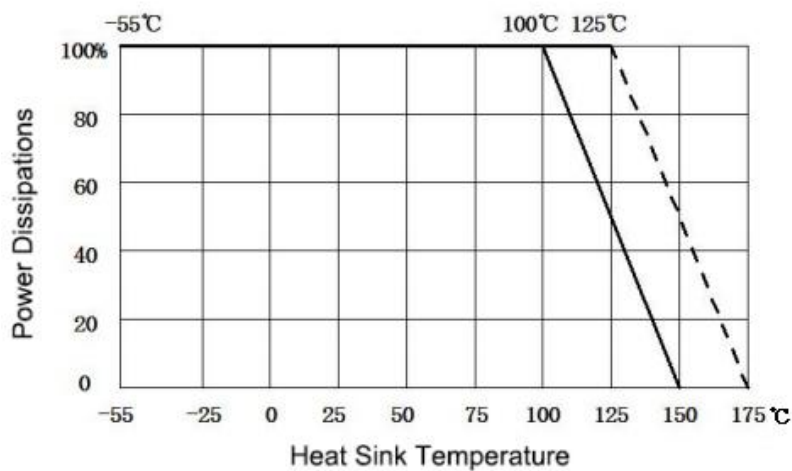


Surface Mount Terminations

Electrical Features

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard; $\pm 3\%$, $\pm 2\%$, $\pm 1\%$ available
- ✧ **Substrate Material:** Aluminum Nitride (AlN), Aluminum Oxide (Al_2O_3)
- ✧ **Power Rating:** 2W-800W
- ✧ **Frequency Range:** DC-18GHz
- ✧ **Operating Temperature:** -55°C to $+150^\circ\text{C}$, -55°C to $+175^\circ\text{C}$
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Power Derating



HOW TO ORDER

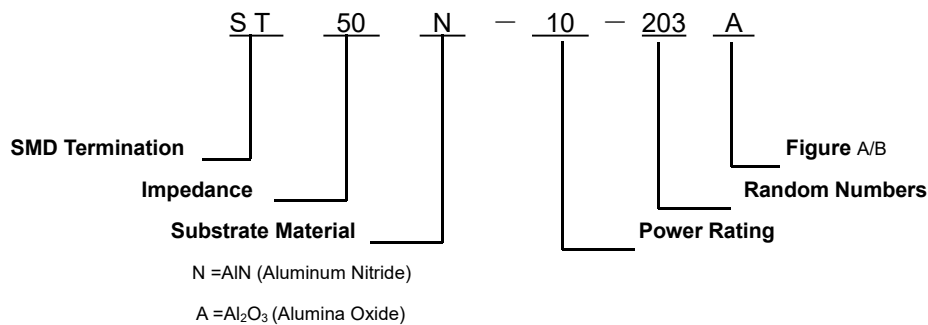
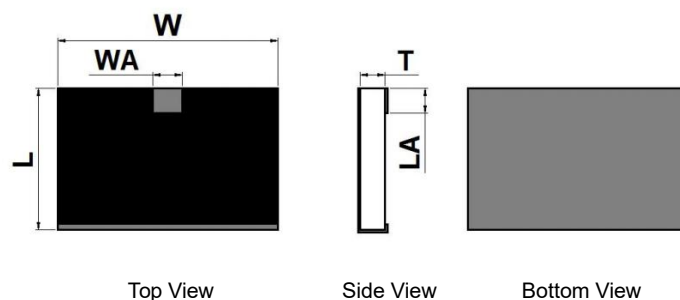


Figure A

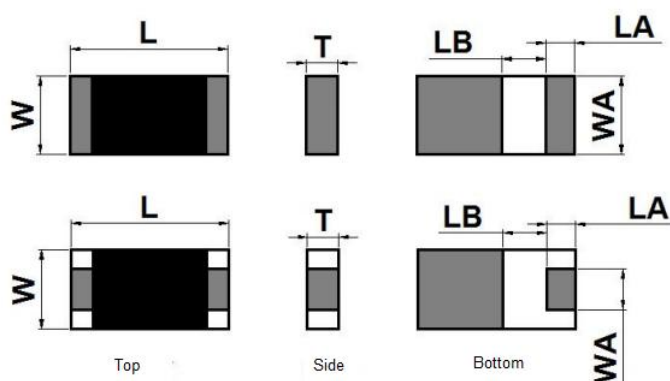


General Specifications and Dimensions

Part Number	Power Rating (W)	Frequency Range (GHz)	VSWR (Max.)	Dimensions (mm)					Outline Drawing
				L	W	T	WA	LA	
ST50A-2-702A	2	DC-4	1.20 : 1	1.1	0.7	0.25	0.5	0.4	Figure A
ST50N-10-203A	10	DC-4	1.20 : 1	2.54	1.27	0.6	0.8	0.8	Figure A
ST50N-10-006A	10	DC-8.5	1.30 : 1	1.27	2.54	0.38	0.8	0.5	Figure A
ST50N-20-107A	20	DC-7.5	1.35 : 1	3.0	1.5	0.6	1.5	0.8	Figure A
ST50N-20-430A	20	DC-18	1.30 : 1	2.5	5.0	0.6	1.0	0.6	Figure A
ST50N-30-332A	30	DC-3	1.25 : 1	5.0	2.5	1.0	2.5	1.0	Figure A
ST50N-60-329A	60	DC-4	1.25 : 1	6.35	6.35	1.0	1.4	1.0	Figure A
ST50N-100-503A	100	DC-3	1.20 : 1	5.7	8.9	1.0	1.5	1.1	Figure A
ST50N-150-516A	150	DC-3	1.20 : 1	5.7	8.9	1.0	3.0	1.2	Figure A
ST50N-150-306A	150	DC-3	1.25 : 1	9.5	6.35	1.0	1.2	1.0	Figure A
ST50N-250-407A	250	DC-2.7	1.25 : 1	9.5	5.7	1.0	2.9	1.1	Figure A
ST50N-250-525A	250	DC-3	1.20 : 1	9.5	9.5	1.0	2.5	1.1	Figure A
ST50N-500-732A	500	DC-2.5	1.30 : 1	12.7	12.7	2.0	2.6	1.6	Figure A
ST50N-800-401A	800	DC-1	1.20 : 1	26.4	25.4	1.5	6.0	1.7	Figure A

* Customized products are available, please consult with Kete.

Figure B



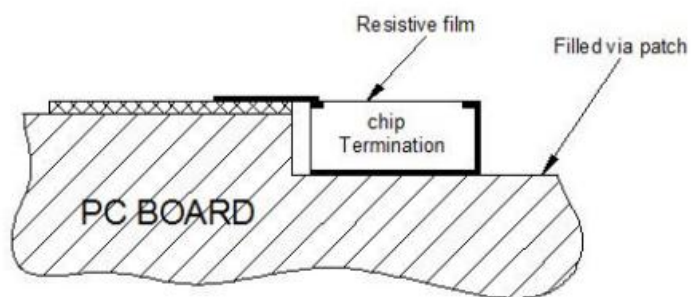
General Specifications and Dimensions

Part Number	Power Rating (W)	Frequency Range (GHz)	VSWR (Max.)	Dimensions (mm)						Outline Drawing
				W	L	T	LA	LB	WA	
ST50N-1-801B	1	DC-6	1.30 : 1	0.5	1.0	0.25	0.3	0.4	0.5	Figure B
ST50N-2-002B	2	DC-3	1.30 : 1	0.8	1.6	0.38	0.4	0.8	0.8	Figure B
ST50N-3-701B	3	DC-6	1.30 : 1	1.27	2.0	0.3	0.4	0.6	1.27	Figure B
ST50N-5-001B	5	DC-6	1.25 : 1	1.27	2.54	0.4	0.4	0.6	1.27	Figure B
ST50N-8-803B	8	DC-8	1.30 : 1	1.5	3.0	0.38	0.46	0.76	1.5	Figure B
ST50N-10-002B	10	DC-6	1.25 : 1	1.27	2.54	0.4	0.4	0.6	1.27	Figure B
ST50N-12-803B	12	DC-8	1.30 : 1	1.5	3.0	0.38	0.46	0.76	1.5	Figure B
ST50N-20-410B	20	DC-6	1.30 : 1	2.5	5.0	0.6	0.5	0.8	1.4	Figure B
ST50N-25-337B	25	DC-6	1.30 : 1	2.5	5.0	1.0	0.5	0.9	2.5	Figure B
ST50N-50-340B	50	DC-6	1.35 : 1	2.5	5.0	0.635	0.5	0.9	2.5	Figure B
ST50N-100-905B	100	DC-6	1.30 : 1	5.0	5.0	1.0	0.64	0.6	1.27	Figure B
ST50N-100-330B	100	DC-3	1.20 : 1	6.35	6.35	1.0	0.76	1.0	1.27	Figure B
ST50N-150-803B	150	DC-4	1.20 : 1	6.35	6.35	1.5	0.76	1.0	1.27	Figure B
ST50N-250-528B	250	DC-3	1.25 : 1	9.5	9.5	1.0	0.76	1.0	1.27	Figure B

* Customized products are available, please consult with Kete.

Installation Instruction

1. When welding devices or leads, it is best to use a temperature-controlled soldering iron and keep the temperature at 260°C.
2. Drill a heat dissipation hole on the PCB, and fill the heat dissipation hole with solder.
3. The lead is welded on the PCB and should be flush with the surface of the product and PCB.



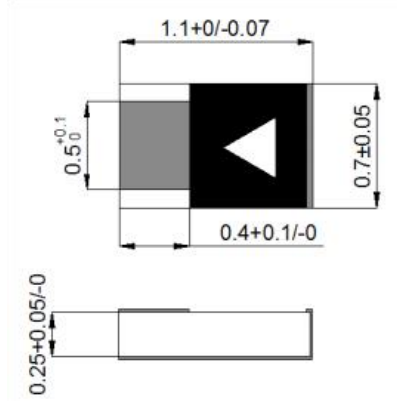
Surface Mount Terminations

Part Number: ST50A-2-702A

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** Al_2O_3
- ✧ **Power Rating:** 2W
- ✧ **Frequency Range:** DC-4GHz
- ✧ **VSWR (Max.) :** 1.20:1
- ✧ **Operating Temperature:** -55°C to $+150^\circ\text{C}$
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

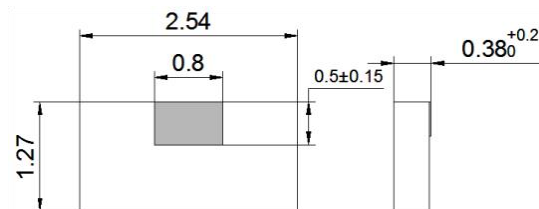


Part Number: ST50N-10-203A

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 10W
- ✧ **Frequency Range:** DC-4GHz
- ✧ **VSWR (Max.) :** 1.20:1
- ✧ **Operating Temperature:** -55°C to $+150^\circ\text{C}$
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number: ST50N-10-006A

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 10W
- ✧ **Frequency Range:** DC-8.5GHz
- ✧ **VSWR (Max.) :** 1.30:1
- ✧ **Operating Temperature:** -55°C to $+150^\circ\text{C}$
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

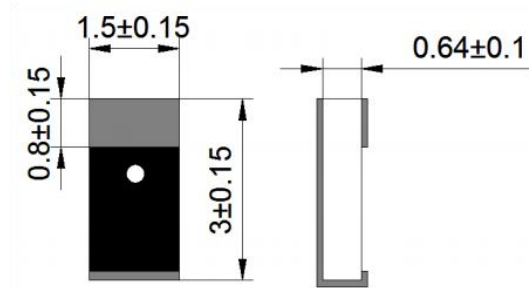
Surface Mount Terminations

Part Number: **ST50N-20-107A**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 20W
- ✧ **Frequency Range:** DC-7.5GHz
- ✧ **VSWR (Max.) :** 1.35:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

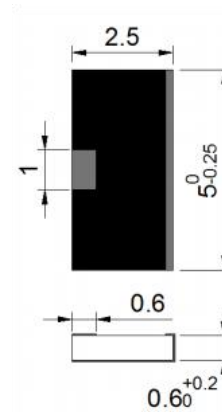


Part Number: **ST50N-20-430A**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 20W
- ✧ **Frequency Range:** DC-18GHz
- ✧ **VSWR (Max.) :** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

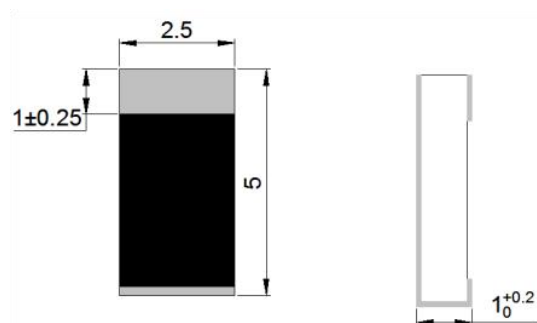


Part Number: **ST50N-30-332A**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** 5% standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 30W
- ✧ **Frequency Range:** DC-3GHz
- ✧ **VSWR (Max.) :** 1.25:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)



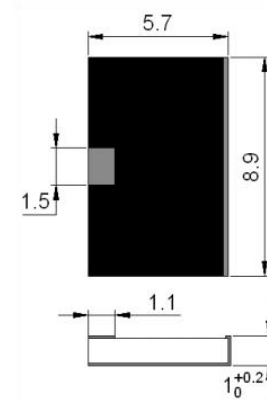
Surface Mount Terminations

Part Number: **ST50N-60-329A**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 60W
- ✧ **Frequency Range:** DC-4GHz
- ✧ **VSWR (Max.) :** 1.25:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

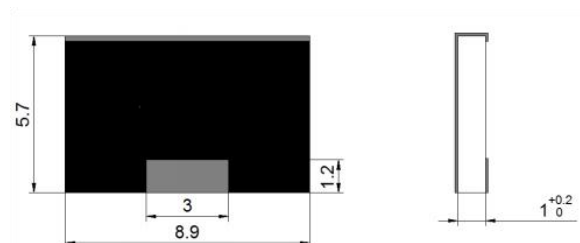


Part Number: **ST50N-100-503A**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Power Rating:** 100W
- ✧ **Frequency Range:** DC-3GHz
- ✧ **VSWR (Max.) :** 1.20:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **Substrate:** AlN
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number: **ST50N-150-516A**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 150W
- ✧ **Frequency Range:** DC-3GHz
- ✧ **VSWR (Max.) :** 1.20:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

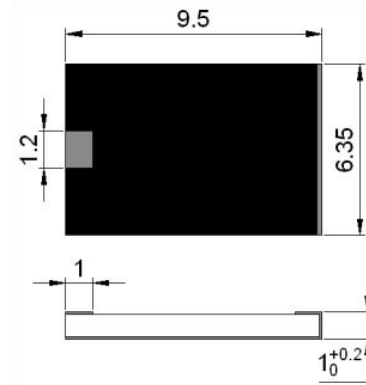
Surface Mount Terminations

Part Number: **ST50N-150-306A**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 150W
- ✧ **Frequency Range:** DC-3GHz
- ✧ **VSWR (Max.) :** 1.25:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

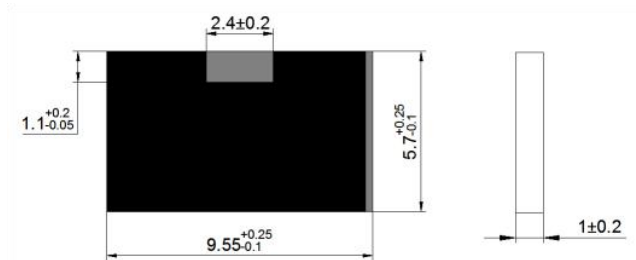


Part Number: **ST50N-250-407A**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 250W
- ✧ **Frequency Range:** DC-2.7GHz
- ✧ **VSWR (Max.) :** 1.25:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

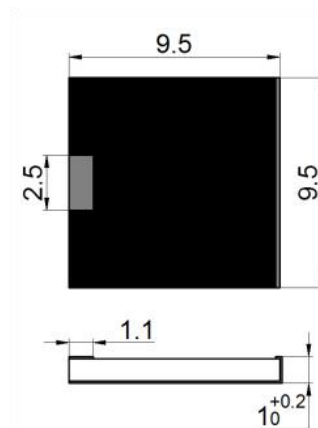


Part Number: **ST50N-250-525A**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 250W
- ✧ **Frequency Range:** DC-3GHz
- ✧ **VSWR (Max.) :** 1.20:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Surface Mount Terminations

Part Number: **ST50N-500-732A**

Electrical Specifications

Outline Drawing (mm)

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 500W
- ✧ **Frequency Range:** DC-2.5GHz
- ✧ **VSWR (Max.) :** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Part Number: **ST50N-800-401A**

Electrical Specifications

Outline Drawing (mm)

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 800W
- ✧ **Frequency Range:** DC-1GHz
- ✧ **VSWR (Max.) :** 1.20:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Surface Mount Terminations

Part Number: ST50N-1-801B

Electrical Specifications

Outline Drawing (mm)

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 1W
- ✧ **Frequency:** DC-6GHz
- ✧ **VSWR (Max.) :** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Part Number: ST50N-2-002B

Electrical Specifications

Outline Drawing (mm)

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 2W
- ✧ **Frequency:** DC-3GHz
- ✧ **VSWR (Max.) :** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Part Number: ST50N-3-701B

Electrical Specifications

Outline Drawing (mm)

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 3W
- ✧ **Frequency:** DC-6GHz
- ✧ **VSWR (Max.) :** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

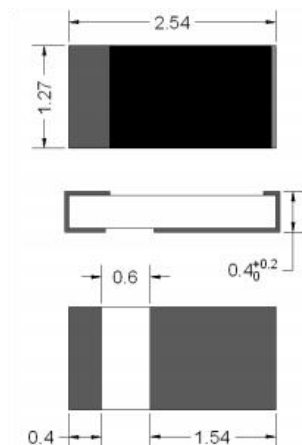
Surface Mount Terminations

Part Number: **ST50N-5-001B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 5W
- ✧ **Frequency Range:** DC-6GHz
- ✧ **VSWR (Max.):** 1.25:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** ± 150 ppm/°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)

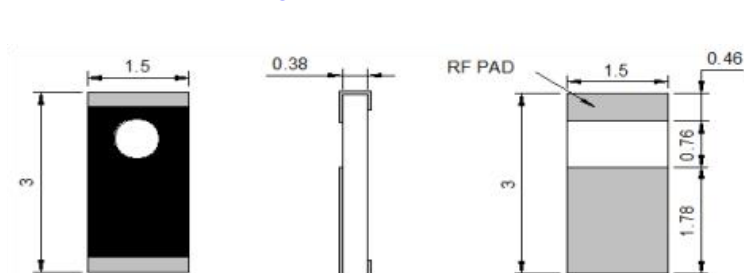


Part Number: **ST50N-8-803B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 8W
- ✧ **Frequency Range:** DC-8GHz
- ✧ **VSWR (Max.):** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** ± 150 ppm/°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)

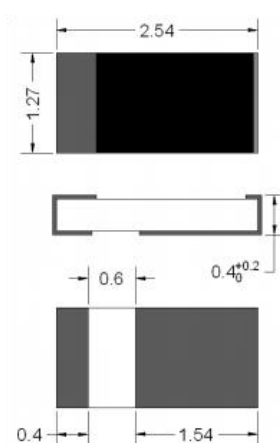


Part Number: **ST50N-10-002B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 10W
- ✧ **Frequency Range:** DC-6GHz
- ✧ **VSWR (Max.):** 1.25:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** ± 150 ppm/°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



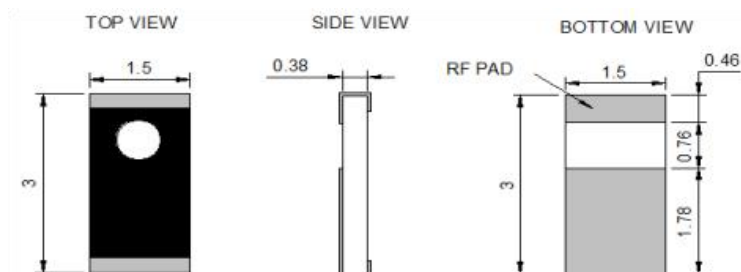
Surface Mount Terminations

Part Number: **ST50N-12-803B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 12W
- ✧ **Frequency Range:** DC-8GHz
- ✧ **VSWR (Max.):** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

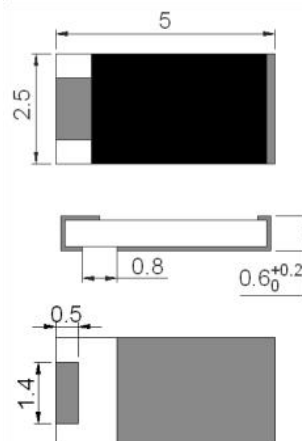


Part Number: **ST50N-20-410B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 20W
- ✧ **Frequency Range:** DC-6GHz
- ✧ **VSWR (Max.):** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

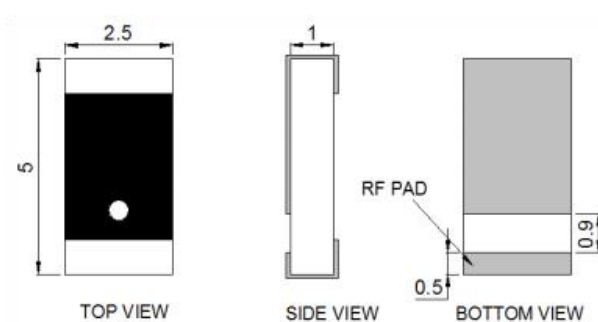


Part Number: **ST50N-25-337B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 25W
- ✧ **Frequency Range:** DC-6GHz
- ✧ **VSWR (Max.):** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)



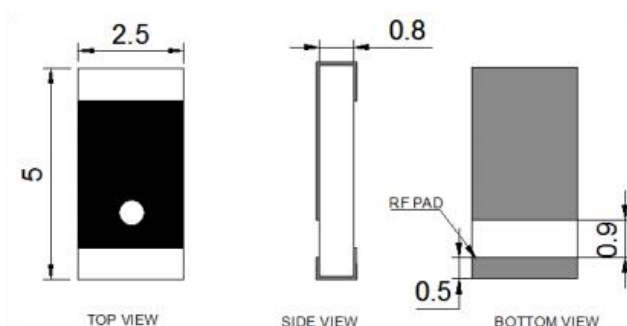
Surface Mount Terminations

Part Number: **ST50N-50-340B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 50W
- ✧ **Frequency Range:** DC-6GHz
- ✧ **VSWR (Max.) :** 1.35:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

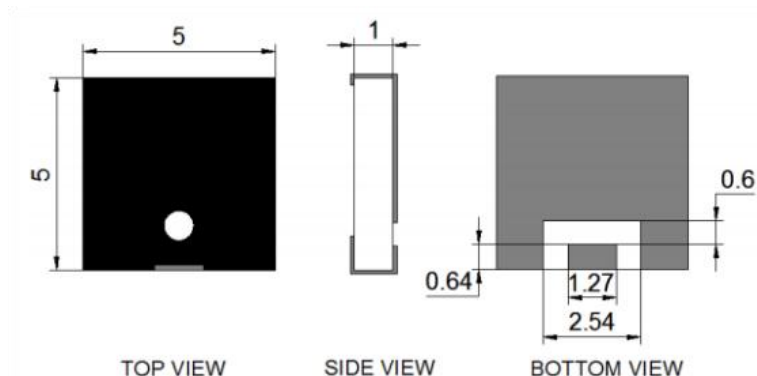


Part Number: **ST50N-100-905B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 100W
- ✧ **Frequency Range:** DC-6GHz
- ✧ **VSWR (Max.) :** 1.30:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

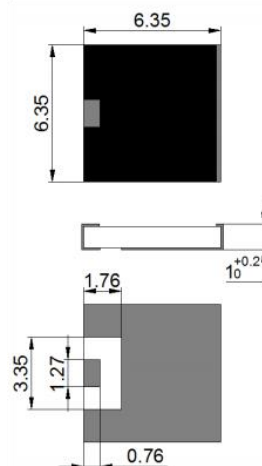


Part Number: **ST50N-100-330B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 100W
- ✧ **Frequency Range:** DC-3GHz
- ✧ **VSWR (Max.) :** 1.20:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)



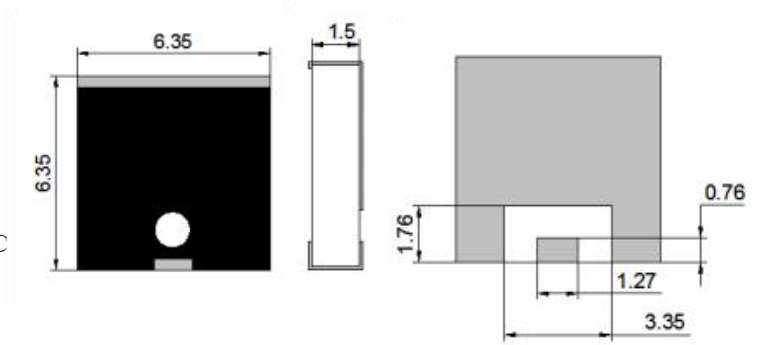
Surface Mount Terminations

Part Number: **ST50N-150-803B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 150W
- ✧ **Frequency Range:** DC-4GHz
- ✧ **VSWR (Max.) :** 1.20:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number: **ST50N-250-528B**

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** $\pm 5\%$ standard
- ✧ **Substrate Material:** AlN
- ✧ **Power Rating:** 250W
- ✧ **Frequency Range:** DC-3GHz
- ✧ **VSWR (Max.) :** 1.25:1
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** $\pm 150\text{ppm}/^\circ\text{C}$
- ✧ **RoHS Compliant**

Outline Drawing (mm)

