

Model A100N50X4

Chip Termination 100 Watts, 50Ω



Features:

- RoHS Compliant
- 100 Watts
- DC 2.7 GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested
- Small Size

Outline Drawing

Description

<u>RoH</u> Compli

The A100N50X4 is high performance Aluminum Nitride (AIN) chip termination intended as an alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators and for use in power combiners. The termination is also RoHS compliant!

General Specifications

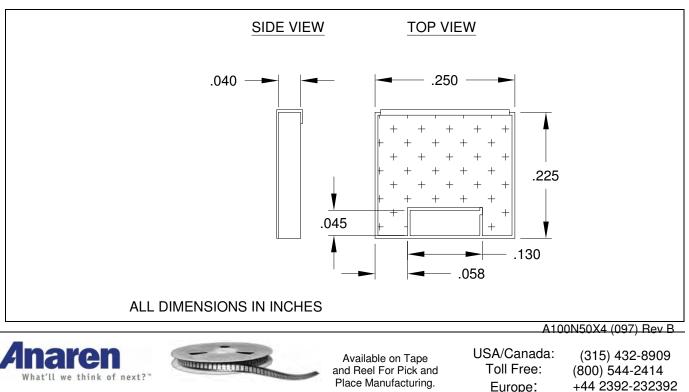
Resistive Element	Thick film
Substrate	AIN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +150°C (See de rating chart)
Tolerance is $\pm 0.010^{\circ}$, unless otherwise specified. Designed to meet of exceed	

applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	100 Watts
Frequency Range:	DC – 2.7 GHz
V.S.W.R.	1.1:1 to 2.7 GHz

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

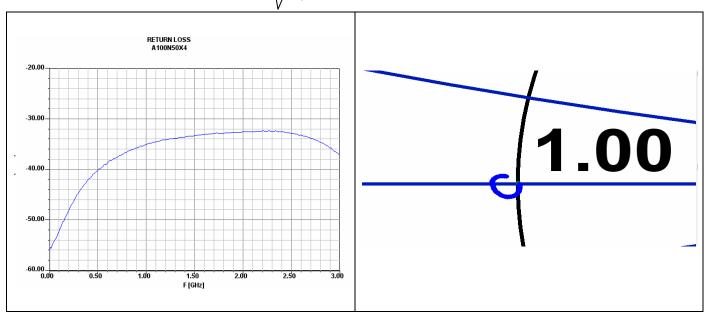


Model A100N50X4

Typical Performance:

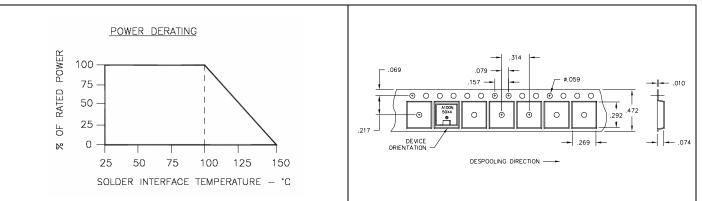


RoHs Compliant

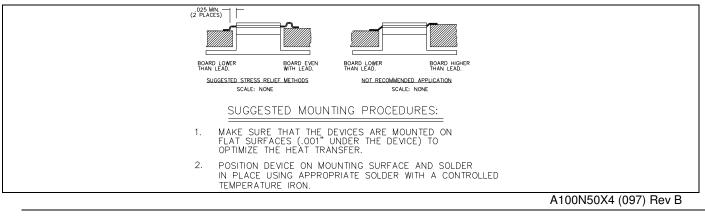


Power De-rating:

Tape & Reel:



Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392







Features:

- RoHS Compliant
- 125 Watts
- DC 4.0 GHz
- AIN Ceramic
- Non-Nichrome Resistive
 Element
- Low VSWR
- 100% Tested
- Small Size

Outline Drawing

Description

The A125N50X4 is high performance Aluminum Nirtride (AIN) chip termination intended as an alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators and for use in power combiners. The termination is also RoHS compliant!

Model A125N50X4

Chip Termination

125 Watts, 50Ω

General Specifications

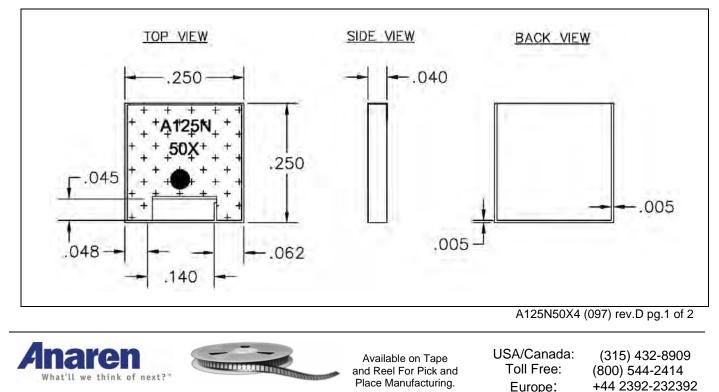
ROHS Compliant

Resistive Element	Thick film
Substrate	AIN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +150°C (see de rating chart)
Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.	

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	125 Watts
Frequency Range:	DC – 4.0 GHz
Return Loss	> 26 dB to 2.7 GHz
	> 20 dB to 4.0 GHz

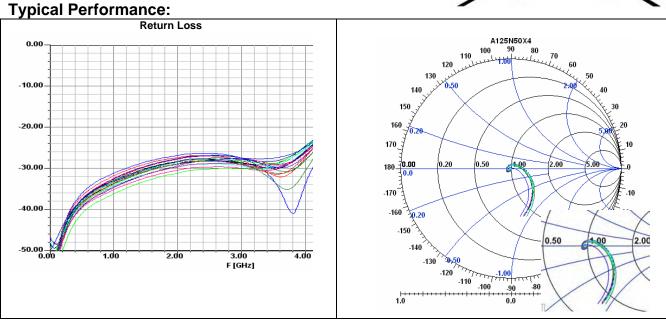
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**



Model A125N50X4

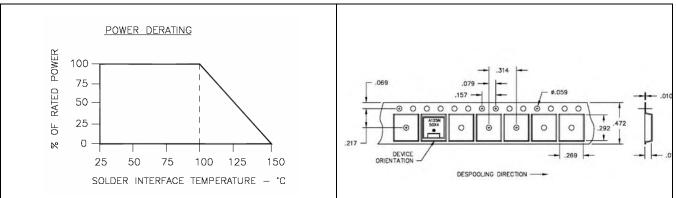


<u>_____RF Power</u>

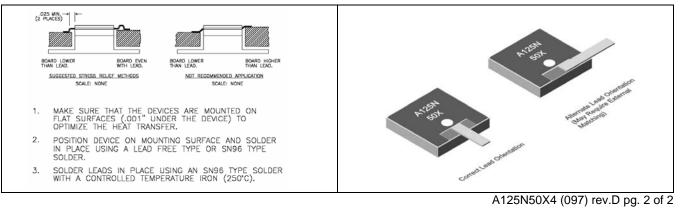




Tape & Reel:



Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392





Model A150N50X4B





Features:

- **RoHS Compliant**
- 150 Watts
- DC 2.7 GHz
- **AIN Ceramic**
- Non-Nic Element
- Lo .
- 100% Tested

hrome Resistive	

w	V	SW	/R			
		_				

Outline Drawing

RoHs Compl

Chip Termination 150 Watts, 50Ω

Description

The A150N50X4B is high performance Aluminum Nitride (AIN) chip termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators, and for use in power combiners. The termination is also RoHS compliant!

General Specifications

Resistive Element	Thick film
Substrate	AIN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +200°C (see de rating chart)
Tolerance is ± 0.010 ", unless other	rwise specified. Designed to meet of exceed

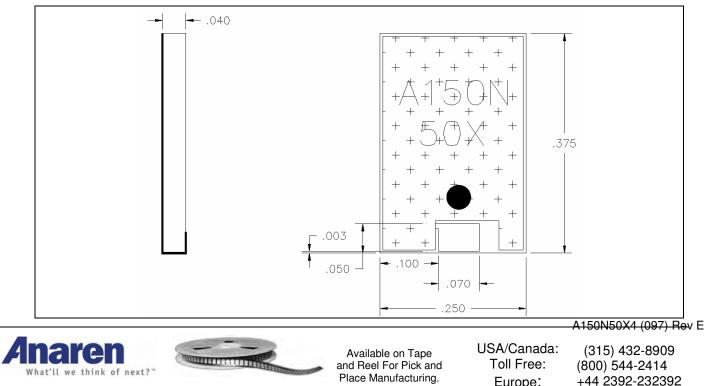
applicable portions of MIL-E-5400. All dimensions in inches.

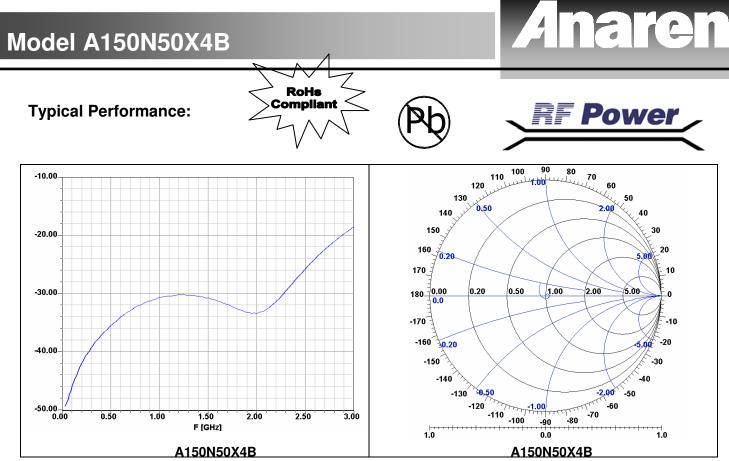
Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	150 Watts
Frequency Range:	DC – 2.7 GHz
Return Loss	>26dB to 2.0 GHz
	>20dB to 2.7 GHz

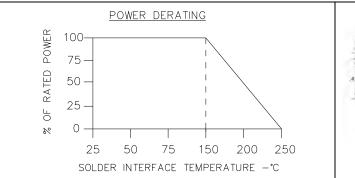
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. Specifications subject to change.

Europe:

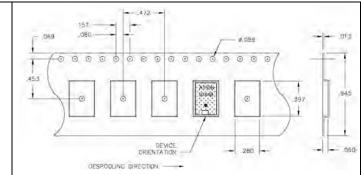




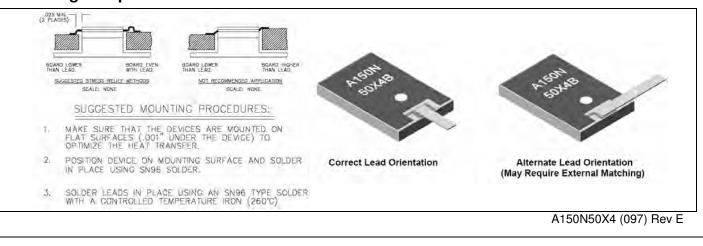
Power De-rating:



Tape & Reel:



Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392



Anaren

Model C10N50Z4A

10 Watts, 50Ω

Surface Mount Termination

-50N

Features:

- DC 3.0 GHz
- 10 Watts
- ALN Ceramic
- Non-Nichrome Resistive
 Element
- 100% Tested
- RoHS Compliant

General Specifications

RoHS

Compliant

Resistive Element:	Thick film
Terminations:	Thick film silver
Substrate:	Aluminum Nitride Ceramic

Electrical Specifications

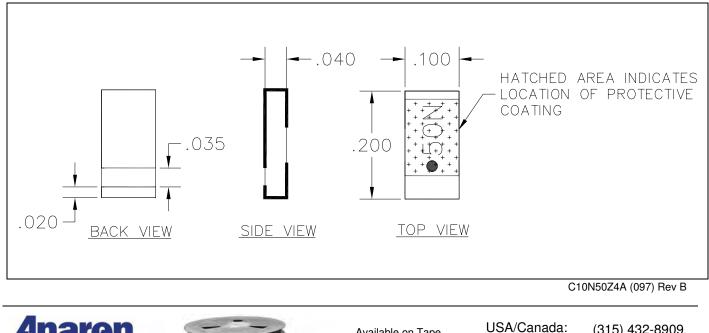
Resistance value:	50 ohms
Frequency Range:	DC – 3.0 GHz
Power:	10 Watts
VSWR:	1.25:1 to 2 GHz, 1.43:1 to 3 GHz

Tolerance is $\pm 0.010^{\circ}$, unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. Operating temperature is -55°C to 125°C (see chart for derating temperatures).

All dimensions in inches.

Specifications subject to change with out notice.

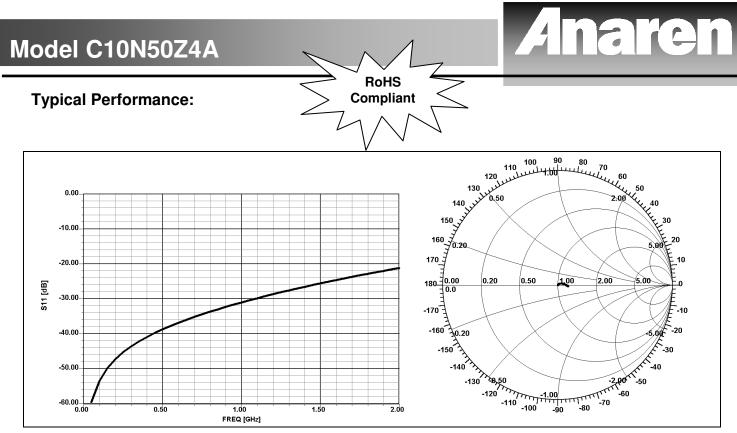
Outline Drawing



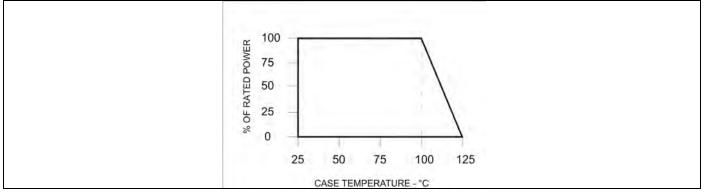




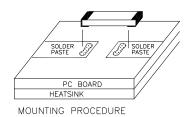
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Power De-rating:



Mounting Procedure:



sure that the devices are mountd

 Make sure that the devices are mountd on flat surfaces (0.001" under the device) to optimize the heat transfer.
 Position device on mounting surface and solder in place using an appropriate type solder.

USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392

Available on Tape and Reel For Pick and Place Manufacturing.



C10N50Z4A (097) Rev B



25 Watts, 50Ω

ALN SMT Termination

Power

Features:

- DC 3.0 GHz
- 25 Watts
- Aluminum Nitride Ceramic
- Non-Nichrome Resistive
 Element
- 100% Tested
- RoHS Compliant

General Specifications

RoHS

Compliant

Resistive Element	Thick film
Terminations	Matte Tin Finish
Substrate	Aluminum Nitride

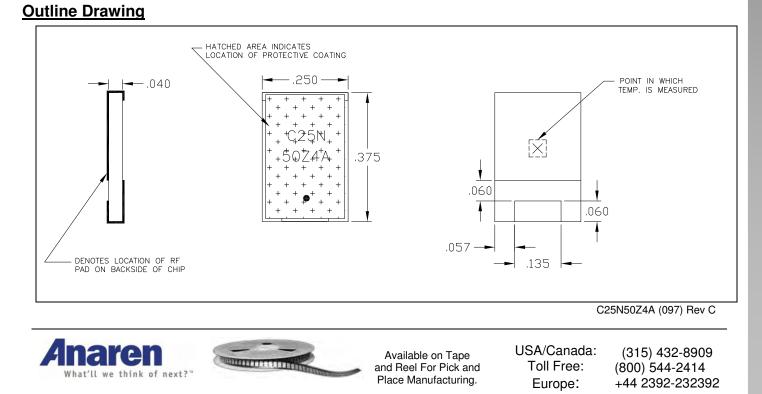
Electrical Specifications

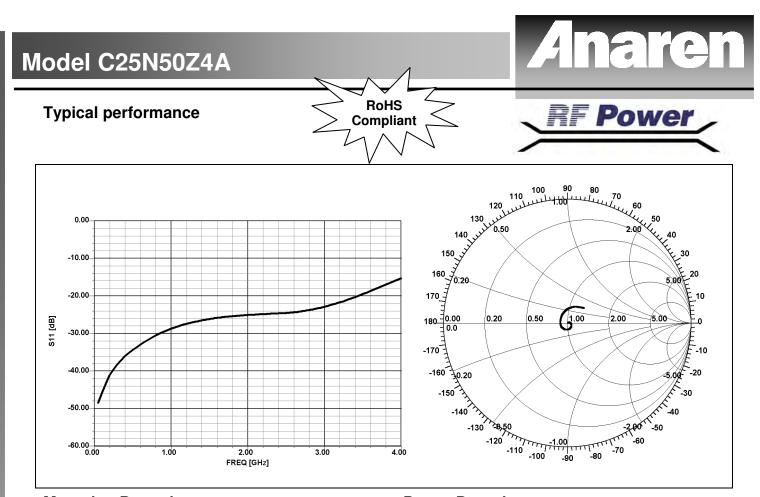
Resistance value:	50 ohms
Frequency Range;	DC – 3.0 GHz
Power:	25 Watts
VSWR:	1.25:1

Tolerance is $\pm 0.010^{\circ}$, unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. Operating temperature is -55°C to 125°C (see chart for derating temperatures).

All dimensions in inches.

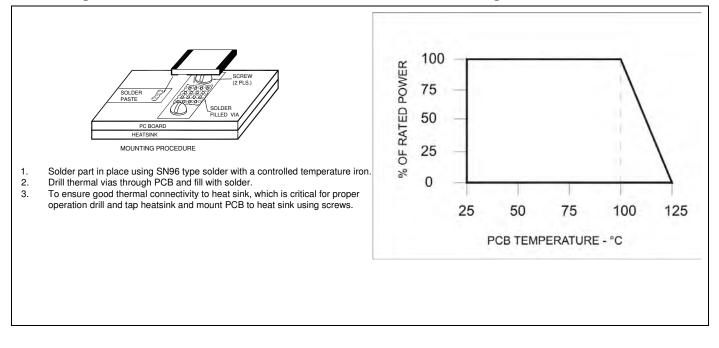
Specifications subject to change with out notice.





Mounting Procedure:

Power De-rating:



C25N50Z4A (097) Rev C

USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392







Features:

- RoHS Compliant
- 50 Watts
- DC 2.7 GHz
- Al2O3 Ceramic
- Non-Nichrome Resistive
 Element
- Low VSWR
- 100% Tested
- Small Size

Outline Drawing

Description

The C50A50Z4 is high performance Alumina (Al203) surface mount termination intended as a low cost alternative to Aluminum Oxide (AlN). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating high power 90 degree couplers, and for use in microstrip circuits. The termination is also RoHS compliant!

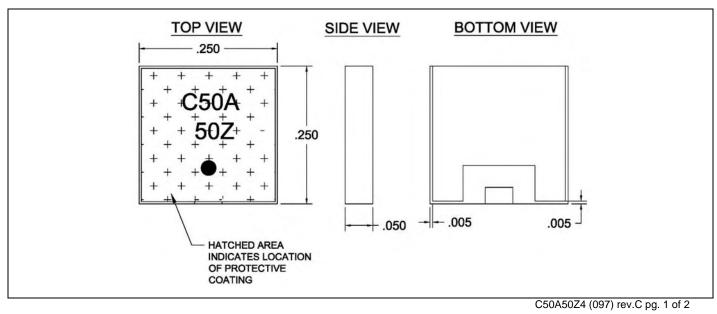
General Specifications

Resistive Element	Thick film
Substrate	Al ₂ O ₃ Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +125°C (see de rating chart)
Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.	

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	50 Watts
Frequency Range:	DC – 2.7 GHz
Return Loss	>26 dB to 2.2 GHz
	>24 dB to 2.7 GHz

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**







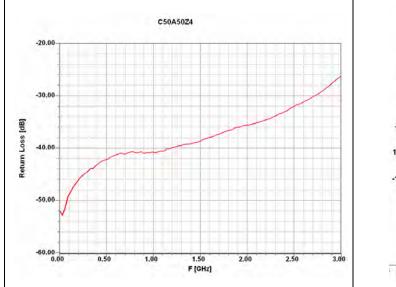
Available on Tape and Reel For Pick and Place Manufacturing. USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392

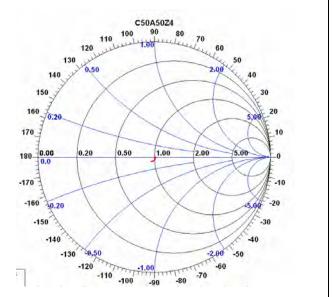
Model C50A50Z4



RF Power

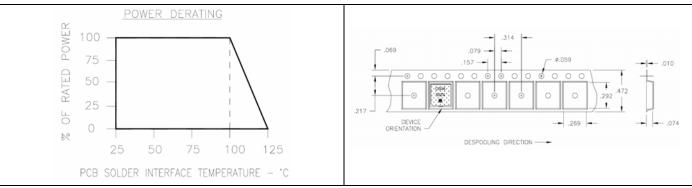
Typical Performance:



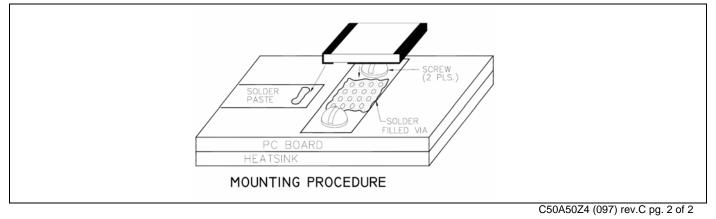


Power De-rating:





Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392





Surface Mount Termination 100 Watts, 50Ω

Description

The C100N50Z4 is high performance Aluminum Nitride (AIN) surface mount termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating high power 90 degree couplers, and for use in microstrip circuits. The termination is also RoHS compliant!

General Specifications

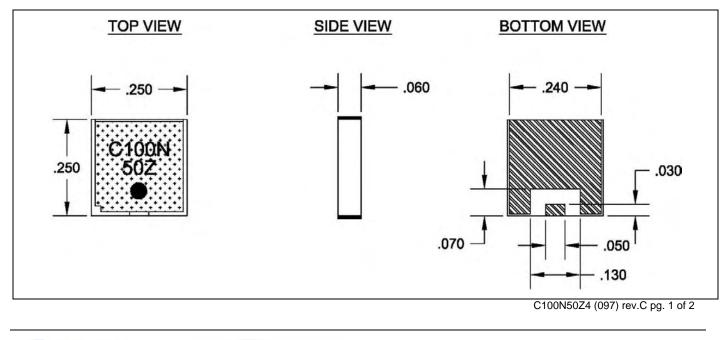
Resistive Element	Thick film
Substrate	AIN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +125°C (see de rating chart)
Tolerance is +0.010" unless other	wise specified. Designed to meet of exceed

Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. **All dimensions in inches**.

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	100 Watts
Frequency Range:	DC – 4.0 GHz
Return Loss	>24 dB DC - 2.7 GHz
	>20 dB DC - 4.0 GHz

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**



Anaren What'll we think of next?"



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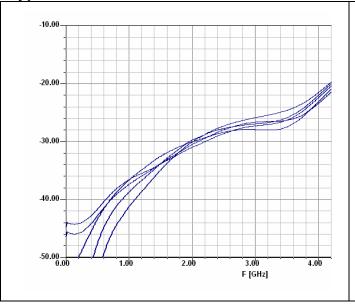
Features:

- RoHS Compliant
- 100 Watts
- DC 4.0 GHz
- AIN Ceramic
- Non-Nichrome Resistive
 Element
- Low VSWR
- 100% Tested
- Small Size

Outline Drawing

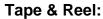


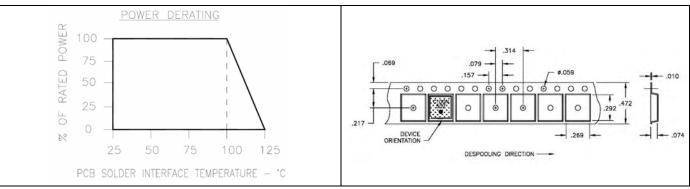
Typical Performance:



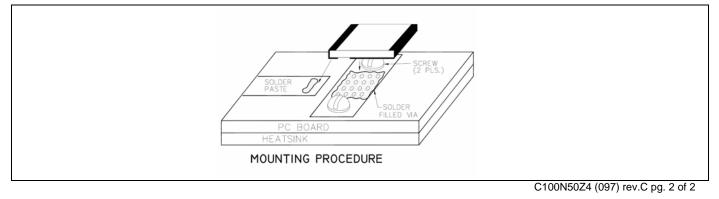
rtp2 90 100 80 110 120 130 140 150 160 170 180 **40.00** 0.50 2.00 5.00 .20 1.00 -170 -160 .20 -150 -30 -140 40 1.00 1.00 1.00 -00--130 -50 -120 -110 100 -70 80 -90 1.0 1.0 0.0

Power De-rating:





Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392





Flangeless Mount Termination 150 Watts, 50Ω



Features:

- RoHS Compliant
- 150 Watts
- DC 2.7GHz
- AIN Ceramic
- Non-Nichrome Resistive
 Element
- Low VSWR
- 100% Tested

Outline Drawing

Description

The E150N50X4 is high performance Aluminum Nitride (AIN) termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators, and for use in power combiners. The termination is also RoHS compliant!

General Specifications

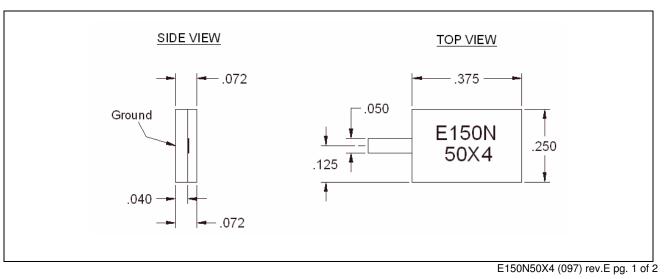
Substrate AIN Coromia	
Substrate AIN Ceramic	
Finish Matte Tin over Nickel	
Cover Alumina Ceramic	

Tolerance is ± 0.010 ", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. **All dimensions in inches.**

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	150 Watts
Frequency Range:	DC – 2.7 GHz
Return Loss	> 25 dB DC - 2.0 GHz
	> 20 dB DC – 2.7 GHz

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**



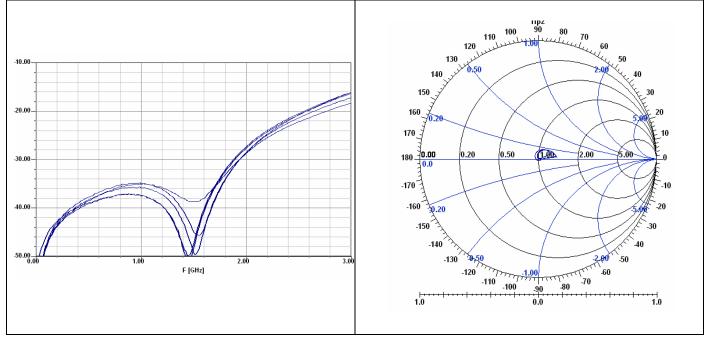


USA/Canada: Toll Free: Europe:

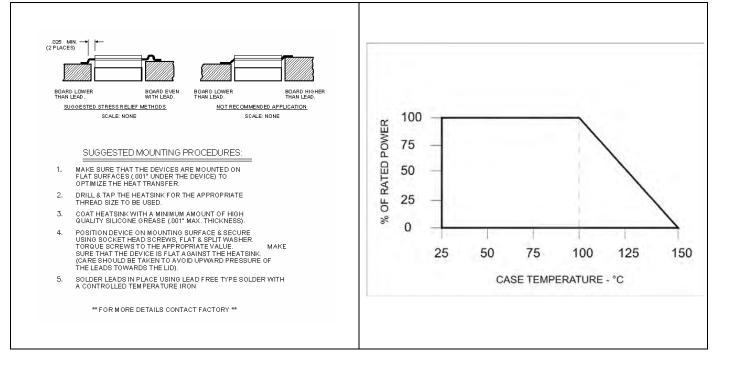
Model E150N50X4

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Typical Performance:



Power De-rating:



E150N50X4 (097) rev.E pg. 2 of 2

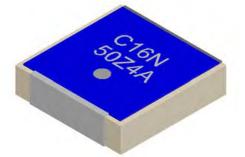
USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392



Mounting Footprint and Procedure:



Surface Mount Termination 16 Watts, 50Ω



Features:

- DC 3.0 GHz
- 16 Watts
- ALN Ceramic
- Non-Nichrome Resistive
 Element
- 100% Tested
- RoHS Compliant

Geveral Specifications

RoHS

Compliant

Resistive Element	Thick film
Finish	Matte Tin over Sulfamate Nickel
Substrate	ALN

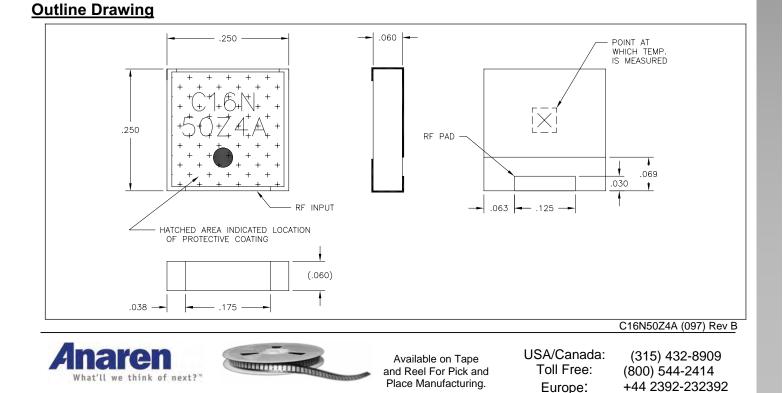
Electrical Specifications

Resistance value:	50 ohms
Frequency Range;	DC – 3.0 GHz
Power:	16 Watts
VSWR:	<1.25:1

Tolerance is ± 0.010 ", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. Operating temperature is -55°C to 125°C (see chart for derating temperatures).

All dimensions in inches.

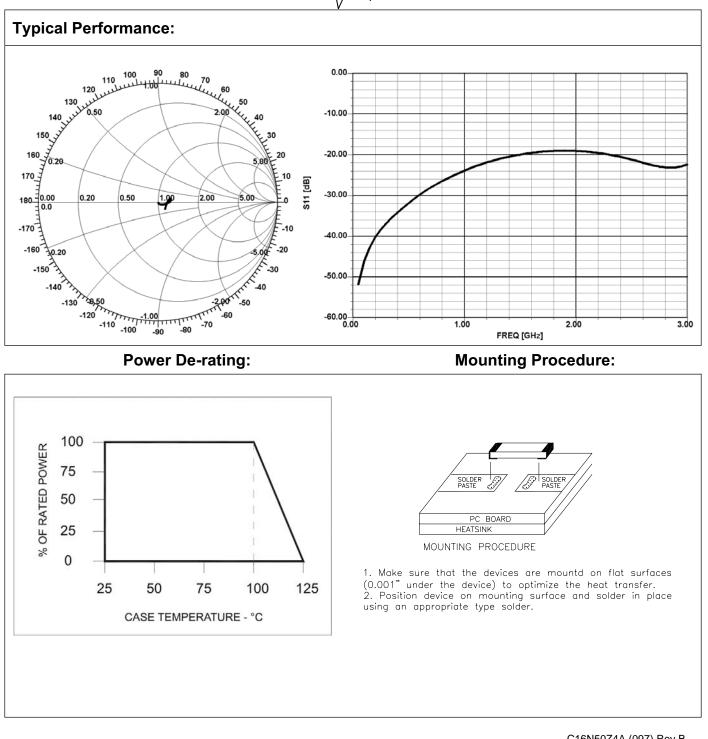
Specifications subject to change with out notice.



Model C16N50Z4A







C16N50Z4A (097) Rev B

USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392





Model J100N50X4

Half Flange Termination

100 Watts, 50Ω



Features:

- RoHS Compliant
- 100 Watts
- DC 3.0 GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

Description

ROHS Compliant

The J100N50X4 is high performance Aluminum Nitride (AIN) half flange termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators, and for use in power combiners. The termination is also RoHS compliant!

General Specifications

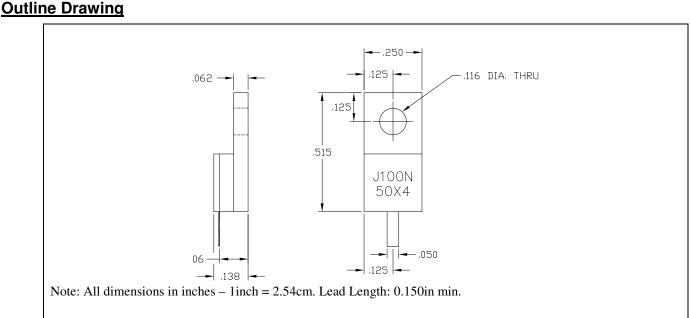
Resistive Element	Thick Film
Substrate	AIN Ceramic
Cover	Alumina Ceramic
Mounting Flange	Copper, nickel plated per QC-N-290
Leads	99% pure silver (.006" thick)
Cover	Alumina Ceramic
Tolerance is +0.010" unless otherw	ise specified. Designed to meet of exceed

I olerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	100 Watts
Frequency Range:	DC – 3.0GHz
V.S.W.R.	1.25 : 1

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. Storage temperature is -20 °C to 85 °C. Operating temperature is -55°C to 125°C (see chart for derating temperatures). **Specifications subject to change with out notice.**



J100N50X4 (097) Rev D.



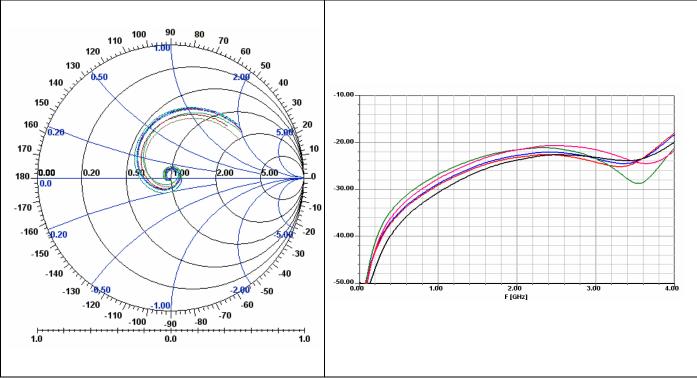
USA/Canada: Toll Free: Europe:

Model J100N50X4

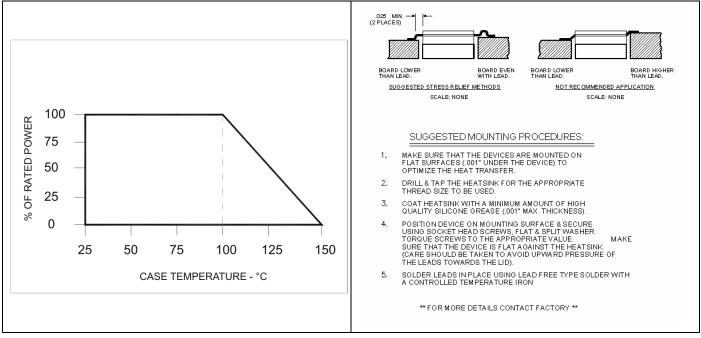


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Typical Performance:



Power De-rating:



J100N50X4 (097) Rev D

USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392



Mounting Footprint and Procedure:





Features:

- RoHS Compliant
- 16 Watts
- DC 4.0 GHz
- Al₂O₃ Ceramic
- Non-Nichrome Resistive
 Element
- Low Return Loss
- 100% Tested
- Small Size

Outline Drawing

Description

The C16A50Z4 is high performance Alumina (Al_2O_3) surface mount termination intended as a low cost alternative to Aluminum Oxide (AIN). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating high power 90 degree couplers, and for use in microstrip circuits. The termination is also RoHS compliant!

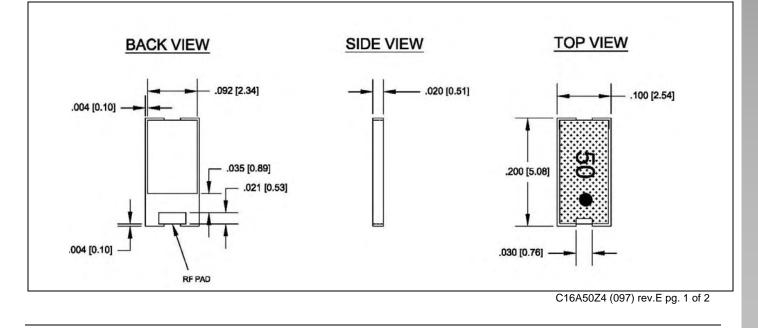
General Specifications

Resistive Element	Thick film
Substrate	AI_2O_3 Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +125°C (see de rating chart)
Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MII -E-5400. All dimensions in inches	

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	16 Watts
Frequency Range:	DC – 4.0 GHz
Return Loss	> 26 dB DC to 2.7 GHz
	> 24 dB 2.7 GHz to 4.0GHz

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**





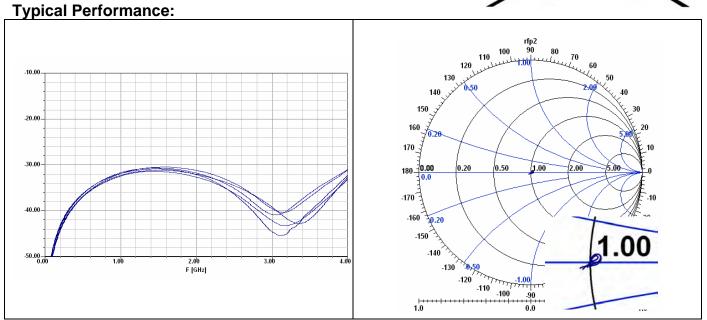


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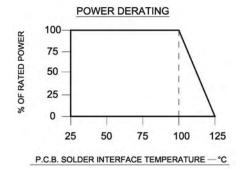
Model C16A50Z4



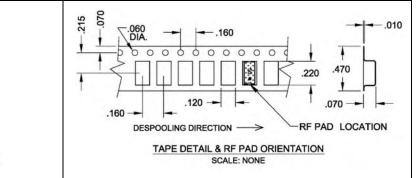
RF Power



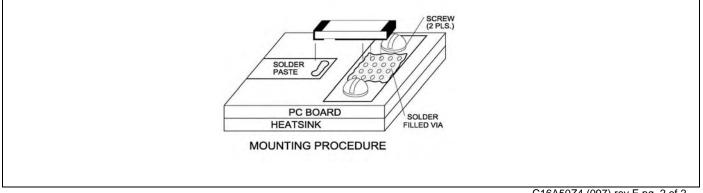
Power De-rating:



Tape & Reel:



Mounting Footprint and Procedure:



C16A50Z4 (097) rev.E pg. 2 of 2

USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392





Model K100N50X4

Half Flange Termination

100 Watts, 50 Ω

+10001 50+x+

Features:

- RoHS Compliant
- 100 Watts
- DC 3.0 GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

Outline Drawing

Description

ROHS Compliant

The K100N50X4 is high performance Aluminum Nitride (AIN) half flange termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators, and for use in power combiners. The termination is also RoHS compliant!

General Specifications

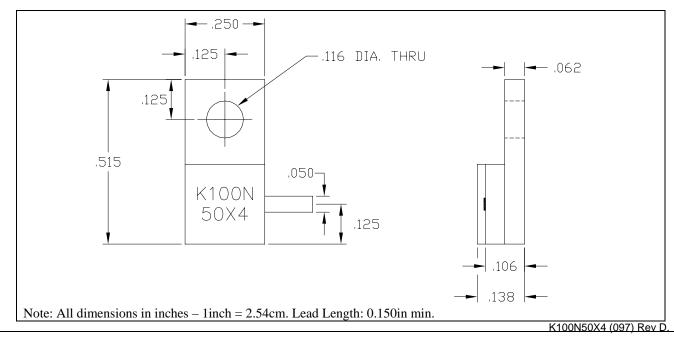
Resistive Element	Thick Film
Substrate	AIN Ceramic
Cover	Alumina Ceramic
Mounting Flange	Copper, nickel plated per QC-N-290
Leads	99% pure silver (.006" thick)

Tolerance is ± 0.010 ", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	100 Watts
Frequency Range:	DC – 3.0GHz
V.S.W.R.	1.25 : 1

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. Storage temperature is -20°C to 85 °C. Operating temperature is -55°C to 125°C (see chart for derating temperatures). **Specifications subject to change with out notice.**





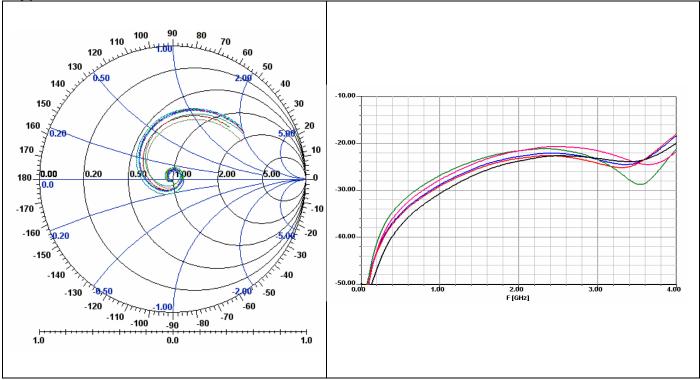
USA/Canada: Toll Free: Europe:

Model K100N50X4

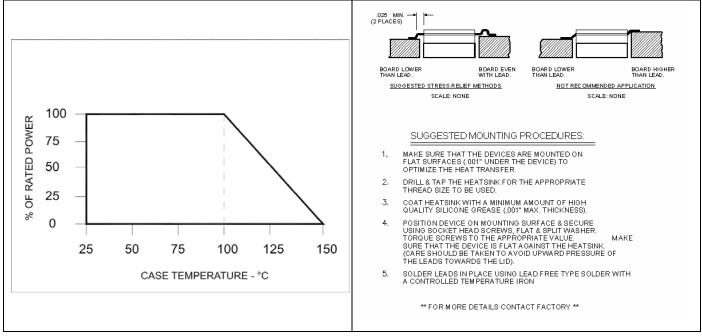




Typical Performance:



Power De-rating:



K100N50X4 (097) Rev D

USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392



Mounting Footprint and Procedure:



Model I100N50X4

Flange Mount Termination 100 Watts, 50Ω



Features:

- RoHS Compliant
- 100 Watts
- DC 3.0 GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

Outline Drawing

Description

ROHS Compliant

The I100N50X4 is high performance Aluminum Nitride (AIN) flange mount termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators, and for use in power combiners. The termination is also RoHS compliant!

General Specifications

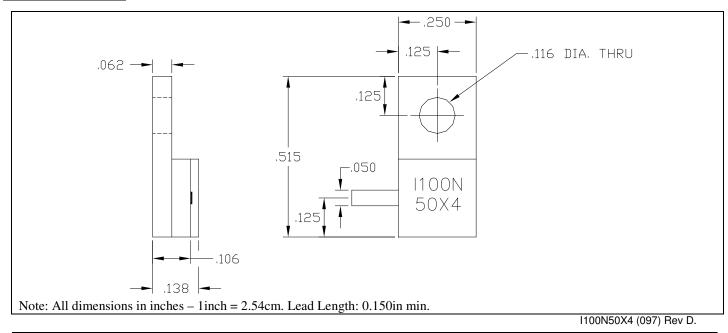
Resistive Element	Thick Film	
Substrate	AIN Ceramic	
Cover	Alumina Ceramic	
Tolerance is +0.010" unless of	berwise specified. Designed to meet of exceed	

Tolerance is $\pm 0.010^\circ$, unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	100 Watts
Frequency Range:	DC – 3.0GHz
V.S.W.R.	1.25 : 1

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. Storage temperature is -20 °C to 85 °C. Operating temperature is -55°C to 125°C (see chart for derating temperatures). **Specifications subject to change with out notice.**





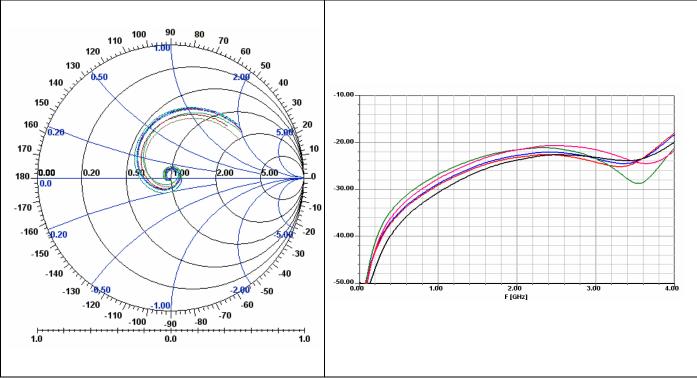
USA/Canada: Toll Free: Europe:

Model I100N50X4

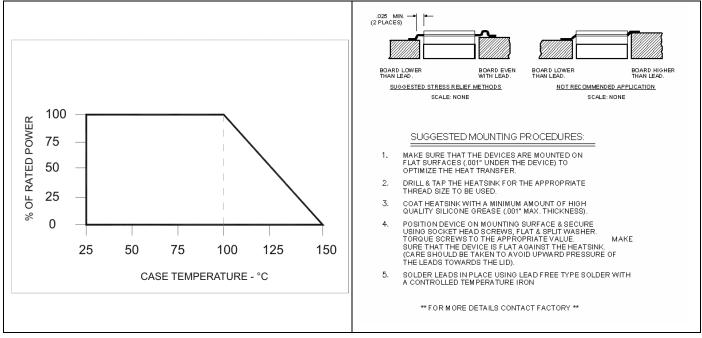


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Typical Performance:



Power De-rating:



I100N50X4 (097) Rev D.

USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392



Mounting Footprint and Procedure:



Features:

•

10 Watts

Element Low VSWR

100% Tested

Outline Drawing

Lowest Cost

RoHS Compliant

Alumina Ceramic

Non-Nichrome Resistive

Powel

Surface Mount Termination 10 Watts, 50Ω

Description

The C10A50Z4 is high performance RoHS compliant Alumina (Al_2O_3) surface mount termination intended as a lower cost alternative to Aluminum Nitride (AIN) and Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating 90 degree hybrid directional couplers, and for use in isolators.

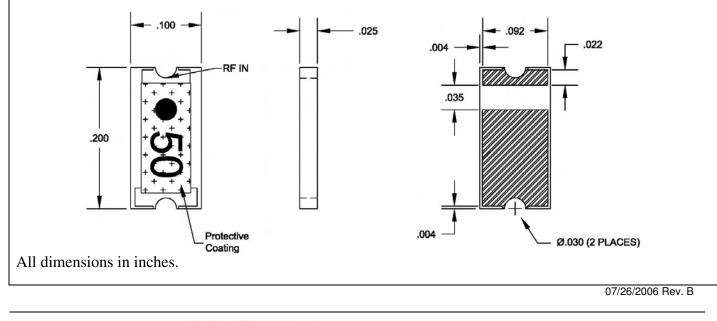
General Specifications

Resistive Element	Thick film
Substrate	Alumina Ceramic
Terminal Finish	Matte Tin over Nickel
Operating Temperature	-55 to +125°C (see chart)
Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.	

Electrical Specifications

Resistance Value:	50 ohms, ± 2%
Power:	10 Watts
Frequency Range:	DC – 3.0 GHz
V.S.W.R.:	<1.25:1

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change without notice**







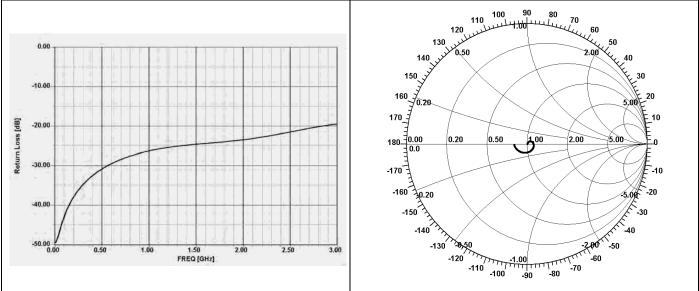
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Model C10A50Z4



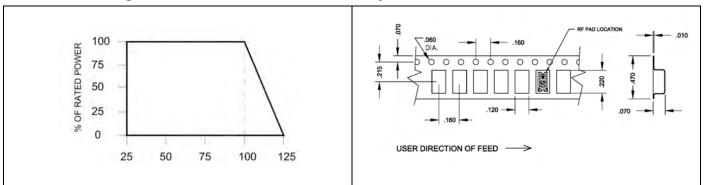




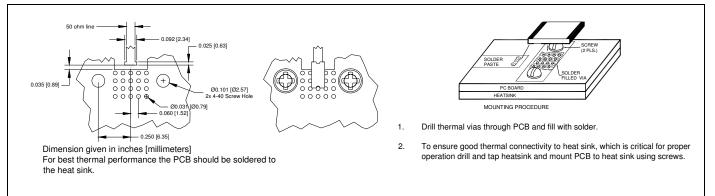


Power De-rating:

Tape & Reel:



Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392





Power

Surface Mount Termination 40 Watts, 50Ω

Description

The C40A50Z4 is a high performance RoHS compliant Alumina (Al2O3) surface mount termination intended as a lower cost alternative to Aluminum Nitride (AIN) and Beryllium Oxide (BeO). The SMD termination is well suited to all cellular frequency bands such as: AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating 90° hybrids, directional couplers, and for use in isolators.

General Specifications

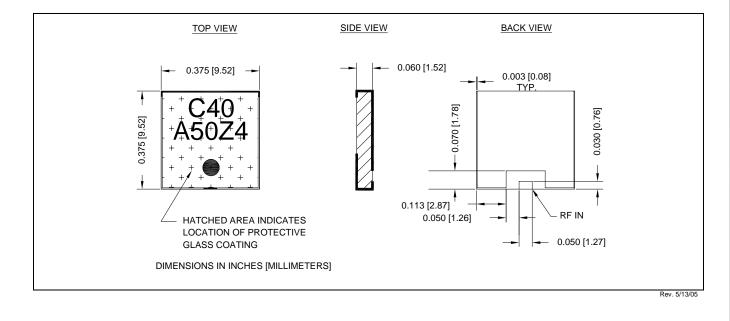
Thick film
Alumina Ceramic
Tin over Nickel
-55 to +125°C (see chart)

Tolerance is $\pm 0.010^\circ$, unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

Resistance Value:	50 ohms, ± 2%
Power:	40 Watts
Frequency Range:	1KHz – 2.3GHz
V.S.W.R.:	<1.20:1
Specification based on unit properly installed using suggested mounting instructions	

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change without notice**







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Features:

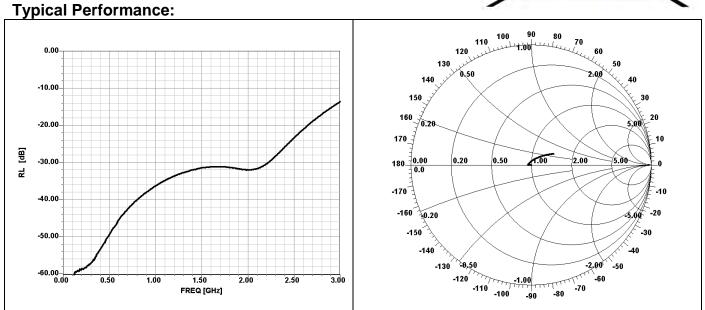
- 40 Watts
- Lowest Cost
- RoHS Compliant
- Alumina Ceramic
- Non-Nichrome Resistive
 Element
- Low VSWR
- 100% Tested

Outline Drawing

Model C40A50Z4



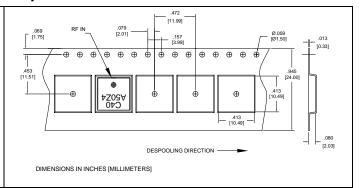
RF Power



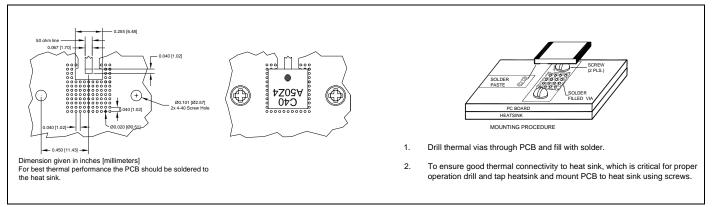
Power De-rating:

100 75 50 50 25 0 25 50 75 85 125 PCB TEMPERATURE - °C

Tape & Reel:



Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392





Power

Features:

- 20 Watts
- Surface Mountable
- Alumina Ceramic
- Non-Nichrome Resistive
 Element
- Low VSWR
- 100% Tested
- RoHS Compliant

Outline Drawing



Model A20A50X1A

Surface mount Termination 20 Watts, 50Ω

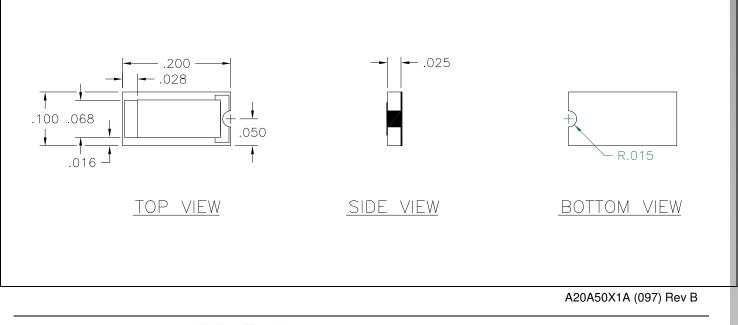
General Specifications

Resistive Element	Thick film
Substrate	Alumina Ceramic
Terminal Finish	Thick film Silver
Operating Temperature	-55 to +125°C (see chart)
Tolerance is $\pm 0.010^{\circ}$, unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.	

Electrical Specifications

Resistance Value:	50 ohms, ± 2%
Power:	20 Watts
Frequency Range:	DC – 6.0 GHz
V.S.W.R.:	1.25:1

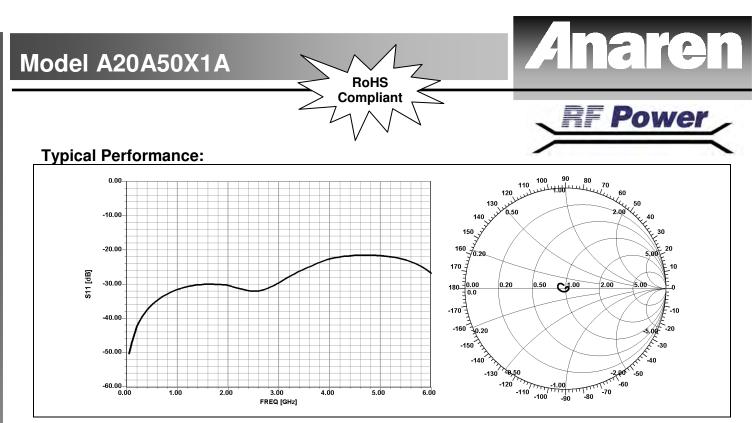
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change without notice**



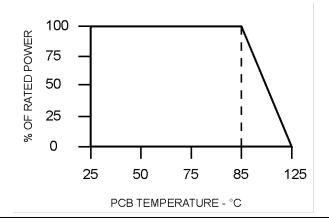




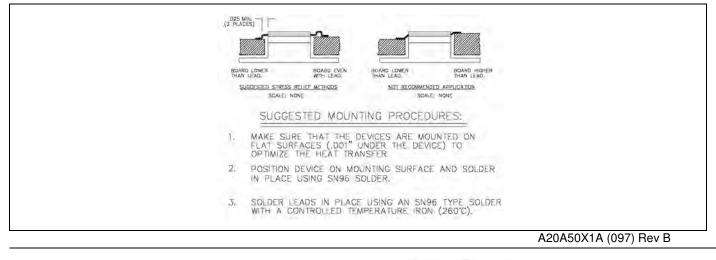
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Derating:

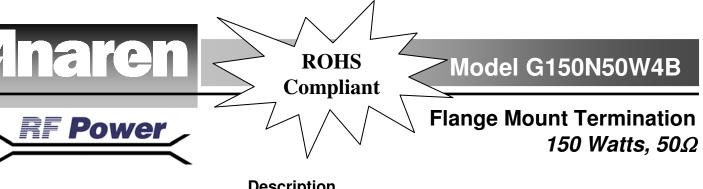


Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392







Features:

- **RoHS Compliant**
- 150 Watts
- DC 2.7 GHz
- **AIN Ceramic**
- **Non-Nichrome Resistive** Element
- Low VSWR
- 100% Tested

Outline Drawing

Description

The G150N50W4B is high performance Aluminum Nitride (AIN) flange mount termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators, and for use in power combiners. The termination is also RoHS compliant!

General Specifications

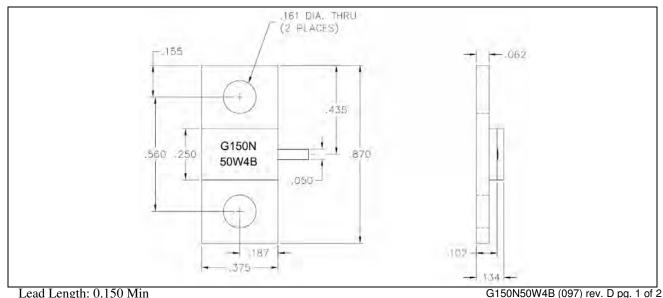
Resistive Element	Thick Film	
Substrate	AIN Ceramic	
Cover	Alumina Ceramic	
Mounting Flange	Nickel Plated Copper	
Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed		

applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	150 Watts
Frequency Range:	DC – 2.7 GHz
Return Loss	> 25 dB to 2.0 GHz
	> 20 dB to 2.7 GHz

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. Specifications subject to change.



Lead Length: 0.150 Min



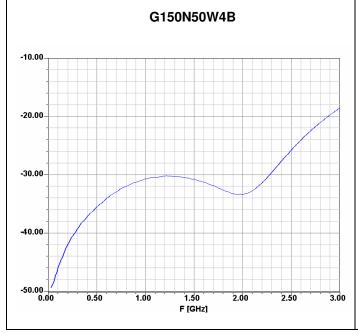
USA/Canada: Toll Free: Europe:

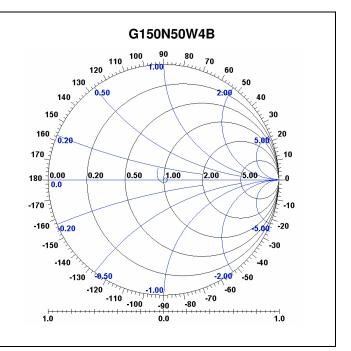
Model G150N50W4B



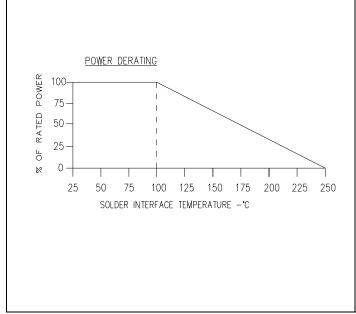
<u>RF Power</u>

Typical Performance:

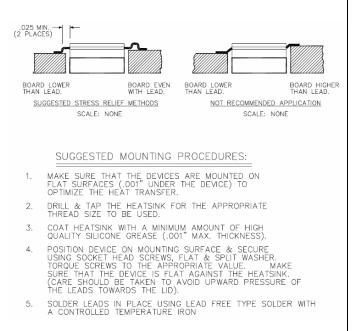




Power De-rating:



Mounting Footprint and Procedure:



G150N50W4B (097) rev. D pg. 2 of 2

USA/Canada: Toll Free: Europe:

