

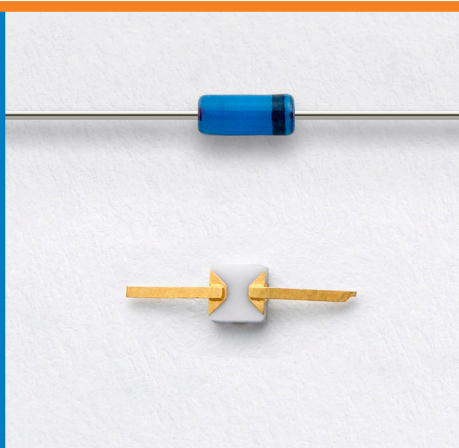


扫码关注

Data Sheet

NC 100/200/300/400 Series

0.1 Hz to 110 GHz



Noise Diodes

Noisecom's noise diodes are the fundamental building blocks of all noise systems. They are hand-picked for performance characteristics that make them ideally suited to broadband noise generation with flat response.

All Noisecom noise diodes deliver symmetrical white Gaussian noise and flat output power versus frequency. The diodes are hermetically sealed and available in a wide variety of package styles. Special package configurations or screening processes are available upon request.

The NC100 and NC200 Series diodes are designed for audio and RF applications. The NC300 and NC400 Series diodes are designed for microwave applications in which a 50-ohm impedance is required.

Typical small signal impedance of the NC300 and NC400 Series is 10-20 ohms after a diode is biased. The output level is higher at low frequencies with low currents and driving the diodes with higher current results in greater output at higher frequencies.

Audio & VHF Types

Model	Frequency Range	Operating Conditions			Minimum Output ($\mu\text{V}/\sqrt{\text{Hz}}$)	Package
		V_b (V)	I_{op}	RL (Ω)		
NC101	0.1 Hz - 100 kHz	7 - 10	30 - 60 μA	2200	3.0	DO-35
NC102	0.1 Hz - 500 kHz	7 - 10	30 - 60 μA	2200	3.0	DO-35
NC103	0.1 Hz - 1 MHz	7 - 10	30 - 60 μA	2200	3.0	DO-35
NC104	0.1 Hz - 3 MHz	7 - 10	30 - 60 μA	2200	3.0	DO-35
NC201	0.1 Hz - 10 MHz	7 - 10	0.2 - 0.5 mA	2200	0.1	DO-35
NC202	0.1 Hz - 25 MHz	7 - 10	0.2 - 0.5 mA	2200	0.1	DO-35
NC203	0.1 Hz - 100 MHz	7 - 10	0.2 - 0.5 mA	50	0.05	DO-35

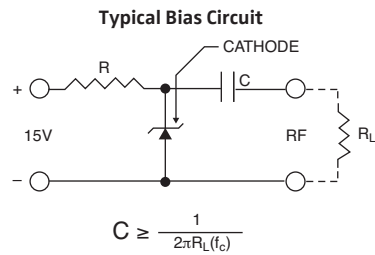
RF & Microwave Types

Model	Frequency Range	Operating Conditions			Output ENR (dB)	Package
		V_b (V)	I_{op} (mA)	RL (Ω)		
NC302L	10 Hz - 3 GHz	6 - 8	6	50	30 - 35	BL, CH1
NC302	10 Hz - 3 GHz	8 - 12	8	50	30 - 35	BL, CH1
NC303	10 Hz - 8 GHz	8 - 12	8	50	30 - 35	BL, CH1
NC303SQ	10 Hz - 10 GHz	8 - 12	8	50	30 - 35	SQ
NC303R	10 Hz - 10 GHz	8 - 10	8	50	30 - 35	R
NC305	10 MHz - 11 GHz	8 - 12	10	50	29 - 34	BL, CH1
NC401	100 MHz - 18 GHz	8 - 12	10	50	30 - 35	C10, C50H, CH2
NC403	100 MHz - 27 GHz	8 - 12	12	50	24 - 28	C50, CH3
NC404	18 GHz - 50 GHz	8 - 12	15	50	20 - 25	C50, CH3
NC405	18 GHz - 75 GHz	8 - 12	20	50	15 - 25	C50, CH3
NC407	1 GHz - 110 GHz	8 - 12	8	50	15 - 25	B

1. For chip configuration, add suffix "C".
2. For beam lead configuration, add suffix "BL".
3. For C50H configuration, add suffix "H".
4. ESD Rating for NC401C is 1C.

Specifications

Output	White Gaussian Noise
Operating temperature	-40°C to +85°C temperature for DO-35 package -55°C to +125°C for all others
Storage temperature	-65°C to +150°C



For NC100 Series
R = 150K

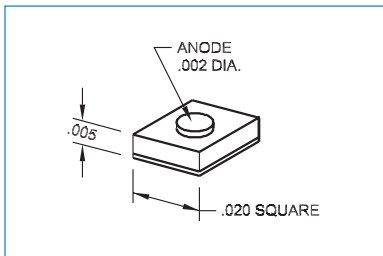
For NC200 Series
R = 15K

For NC300/400 Series
R = Adjust for performance

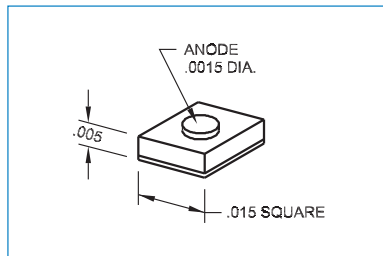
$$C \geq \frac{1}{2\pi R_L(f_c)}$$

f_c = low frequency cut-off

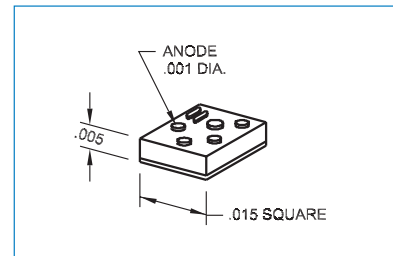
CH1 Chip (inches)



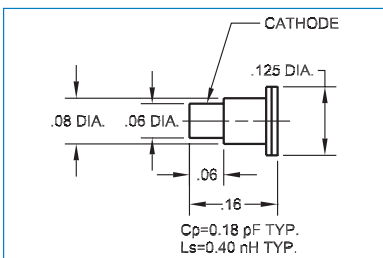
CH2 Chip (inches)



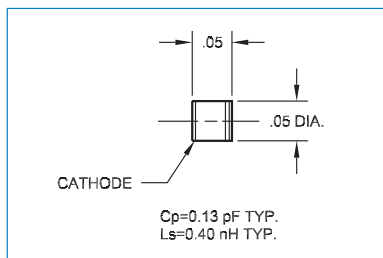
CH3 Chip (inches)



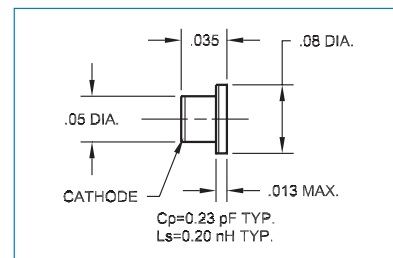
C10 (inches)



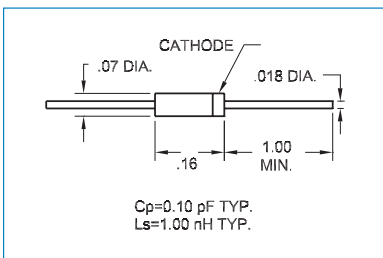
C50 (inches)



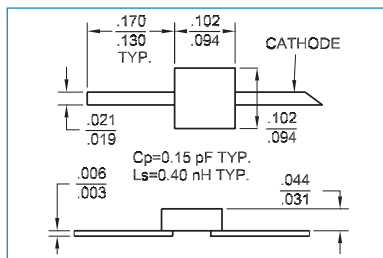
C50H (inches)



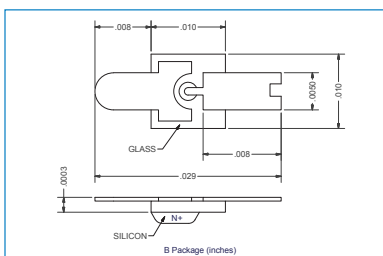
DO-35 Package (inches)



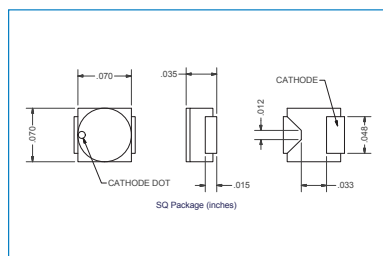
BL Package (inches)



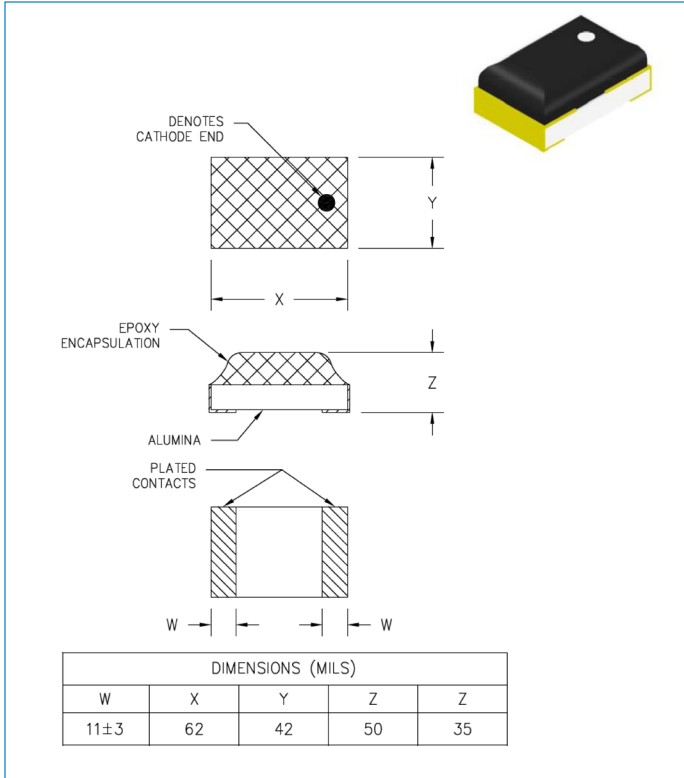
B Package (inches)



SQ Package (inches)



R Package



Wireless Telecom Group Inc.

25 Eastmans Rd
 Parsippany, NJ
 United States

Tel: +1 973 386 9696

Fax: +1 973 386 9191

www.noisecom.com

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Noisecom拥有全球销售和服务办事处网络，致力于为用户提供卓越的产品服务和支持。

中国区(含香港)代理
南京舜特科通信技术有限公司
电话: 025-52635773
邮箱: sales@sainty-tech.com
网址: www.sainty-tech.com
www.noisecom.com

地址: 南京市江宁区胜利路89号紫金研创中心3号楼801