

50Ω 8 Channel 0-64dB, 0.25 dB step, 9K to 8G Hz

Case PN: 6KZ6H41C5A4

Features:

- * 8 Channels
- * Frequency Range: 9K to 8 GHz;
- * Wide Attenuation Range: 63.5 dB
- * Fine Attenuation Resolution: 0.25 dB
- * High Power Handling @8 GHz in 50Ω (28 dBm CW)
- * High Linearity: IIP3 of 62 dBm
- * Short Attenuation Transition Time (<500 ns)
- * Ultra Compact Size, 2.063"x7.313"x0.48"
- * USB Control (Type C connector)
- * Stainless Steel SMA Female Connector
- * High Quality Rogers RO4350 RF PCB
(very low loss and high thermal performance)
- * Electronless Nickel Plating and Permanent Laser Marking
- * ROHS Compliant

Applications:

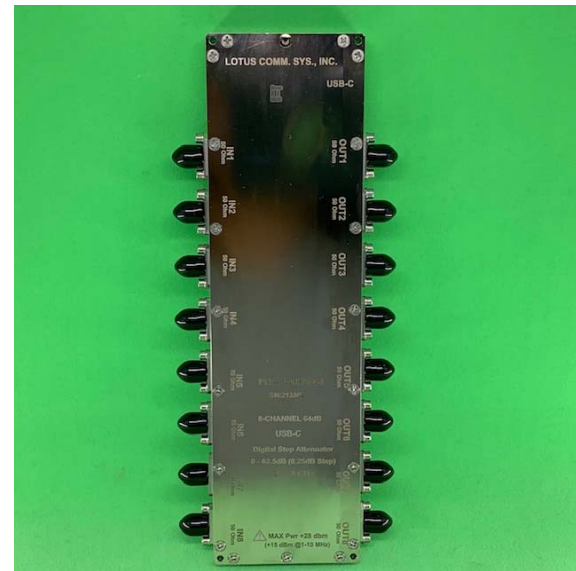
- * Test Instrumentation
- * General Purpose Wireless
- * Radar & VSAT
- * SDR & Ham Radio

General Description:

A8Q8K8G64 is a general purpose, eight channel programmable attenuator suitable for wide range of signal level control applications from 9K to 8 GHz. The Attenuator provides 0 to 63.5 dB attenuation in 0.25 dB steps.

The Attenuator is housed in an ultra-compact and rugged enclosure with SMA Female connectors. The attenuator can be controlled via USB. Full software supported with our user-friendly GUI application for Windows.

It uses USB Type C connector for connection. Control Software can be downloaded on our web site.

**OPERATIONAL MANUAL**

https://cdn.shopify.com/s/files/1/1592/7469/files/LOTUS_DSA_User_Manual_RevB.pdf



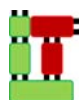
[Digital Step Attenuator User Manual](#)

WINDOWS/LINUX GUI CONTROL SW

https://cdn.shopify.com/s/files/1/1592/7469/files/LOTUS_DSA.exe



[Self-Executable GUI SW Download](#)



Lotus Communication Systems, Inc.

www.lotussys.com 588 Boston Post Rd., Weston, MA 02493 (888) 236-8588 sales@lotussys.com

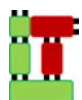
Rev. A A8Q9K8G64

Electrical Specifications at +25° C:

Item	Parameter	Conditions	Min	Typ.	Max	Units
1	Operating Frequency		9K		8G	Hz
2	Attenuation Range (Each Channel)	0.25 dB Step		0-63.5		dB
3	Insertion Loss	9 kHz - 2 GHz 2 GHz - 4 GHz 4 GHz - 8 GHz		2.6 3.4 4.8	3.2 4.0 5.6	dB
4	Attenuation Error	9 kHz - 4 GHz 4 GHz - 8 GHz			+ (0.15+4.5% Setting) -(0.1+2% of Setting)	dB
5	Input Return Loss	9 kHz - 4 GHz 4 GHz - 8 GHz		20 15		dB
6	Output Return Loss	9 kHz - 4 GHz 4 GHz - 8 GHz		17 13		dB
7	Input P1dB		32	34		dBm
8	IIP3	Two tones at +18dBm, $\Delta f = 20$ MHz		61		dBm

Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	Max RF input Power 9 kHz < 50 MHz 50MHz < 8 GHz	+12 +32	dBm dBm
2	Operating Temperature	-40 to +85	°C
3	Max Storage Temperature	-65 to +150	°C



Outline Drawing (inch)

