

Features

- High Speed CMOS Technology
- Complementary Outputs
- Positive Voltage Control
- Low Power Dissipation
- Plastic SOIC Package for SMT Applications
- Tape and Reel Packaging Available
- Lead-Free SOIC-16 Package
- 100% Matte Tin Plating over Copper
- Halogen-Free "Green" Mold Compound
- 260°C Reflow Compatible
- RoHS* Compliant Version of DR65-0001

Description

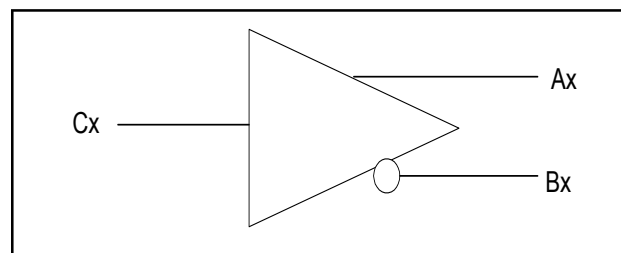
M/A-COM's MADRCC0004 is a Quad channel driver used to translate TTL control inputs into gate voltages for GaAs FET microwave switches and attenuators. High speed analog CMOS technology is utilized to achieve low power dissipation at moderate to high speeds, encompassing most microwave switching applications.

Ordering Information

Part Number	Package
MADRCC0004	Bulk Packaging
MADRCC0004TR	1000 piece reel

Note: Reference Application Note M513 for reel size information.

Logic Diagram



Pin Configuration

Pin No.	Function	Pin No.	Function
1	A3	9	C2
2	B3	10	C1
3	A4	11	GND
4	B4	12	GND
5	V _{EE}	13	A1
6	V _{CC}	14	B1
7	C4	15	A2
8	C3	16	B2

Guaranteed Operating Ranges

Symbol	Parameter ¹	Unit	Min	Typical	Max
V _{CC}	Positive DC Supply Voltage	V	4.5	5.0	5.5
V _{EE}	Negative DC Supply Voltage	V	-5.5	-5.0	-4.5
T _A	Operating Ambient Temperature	°C	-40	+25	+85
I _{OH}	DC Output Current - HIGH	mA	—	—	-1.0
I _{OL}	DC Output Current - LOW	mA	—	—	1.0
T _{rise} , T _{fall}	Maximum Input Rise or Fall Time	nS	—	—	500

1. All voltages are relative to GND.

* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

ADVANCED: Data Sheets contain information regarding a product M/A-COM is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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