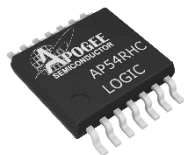


Rad-Hard IC Catalog

Sampling Now



The AP54RHC series is a family of radiation-hard logic and special functions designed to address the unique challenges faced by satellite systems architects. It is fabricated on a 180nm CMOS process utilizing proprietary hardening techniques, delivering high SEE resiliency and TID performance up to 30 kRad (Si) for LEO applications. All members of the AP54RHC family operate across a full 1.65V to 5.5V range providing the system designer flexibility in logic-level interfaces. Additionally, zero-power penalty cold-sparing is offered on every input and output along with Class 2 ESD protection.

Part Number	Package	Pins	Size (mm) (LxWxH) (max)	Description	Lead Finish	TID	SEL
AP54RHC301	TSSOP	14	6.50x5.11x0.94	Double 3-input majority voter with error output	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC504	TSSOP	14	6.50x5.11x0.94	5 channel level translator with bus hold	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC505	TSSOP	14	6.50x5.11x0.94	5 channel buffer level translator	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC705	TSSOP	14	6.50x5.11x0.94	Dual D-Flip Flop with asynchronous clear	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC506	TSSOP	14	6.50x5.11x0.94	5 channel 100 MHz Transceiver	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC00	TSSOP	14	6.50x5.11x0.94	Quad 2-input nand	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC02	TSSOP	14	6.50x5.11x0.94	Quad 2-input nor	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC32	TSSOP	14	6.50x5.11x0.94	Quad 2-input or	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC86	TSSOP	14	6.50x5.11x0.94	Quad 2-input exor	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC132	TSSOP	14	6.50x5.11x0.94	Quad Schmitt 2-input nand	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC27	TSSOP	14	6.50x5.11x0.94	Triple 3-input nor	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC10	TSSOP	14	6.50x5.11x0.94	Triple 3-input nand	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC04	TSSOP	14	6.50x5.11x0.94	Hex inverter	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC14	TSSOP	14	6.50x5.11x0.94	Hex Schmitt inverter	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC08	TSSOP	14	6.50x5.11x0.94	Quad 2-input and	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC11	TSSOP	14	6.50x5.11x0.94	Triple 3-input and	SnPb	30 kRad (Si)	80 MeV/mg/cm ²
AP54RHC05	TSSOP	14	6.50x5.11x0.94	Hex open-drain inverter	SnPb	30 kRad (Si)	80 MeV/mg/cm ²

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www.apogeesemi.com

538 Haggard St. Ste 406

Plano, TX 75074

Contact us: sales@apogeesemi.com