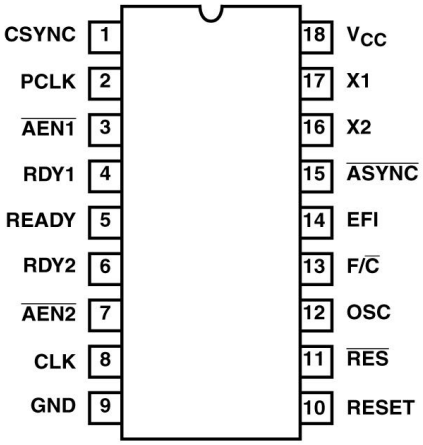
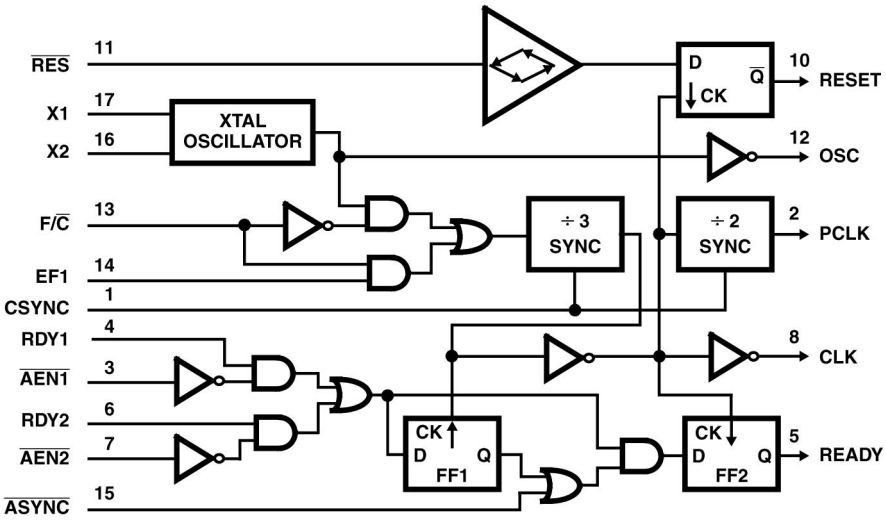
PRELIMINARY

SPACE ELECTRONICS INC.
SPACE PRODUCTS

CLOCK GENERATOR AND DRIVER
82C84ARP





FEATURES:

- RAD-PAK® radiation-hardened against natural space radiation
- Total dose hardness typical 100 krad (Si); dependent upon orbit
- Single event performance
- - See factory
- Package:
- - 28 pin RAD-PAK® quad flat pack
- Uses a crystal or an external frequency source
- Generates system reset output from schmitt trigger input
- Capable of clock synchronization with other 82C84ARPs
- Low power consumption
- Single 5 V power supply
- TTL compatible inputs/outputs

DESCRIPTION:

Space Electronics' 82C84ARP (RP for RAD-PAK®) high speed CMOS microcircuit features a minimum 100 kilorad (Si) total dose tolerance; dependent upon orbit. Using SEi's radiation-hardened RAD-PAK® packaging technology, the 82C84ARP is a high performance clock generator-driver designed to service the requirements of the Intel's M80C86 and M8086. Power consumption is a fraction of that of equivalent bipolar circuits. The chip contains a crystal controlled oscillator, a divide-by-three counter and complete READY synchronization and reset logic. Crystal controlled operation up to 15, 25 MHz utilizes a parallel, fundamental mode crystal and two small load capacitors. Capable of surviving space environments, the 82C84ARP is ideal for satellite, spacecraft, and space probe missions. SEi's RAD-PAK® incorporates radiation shielding in the microcircuit package. It eliminates box shielding while providing required lifetime in orbit. This product is available with packaging and screening up to Class S.

Contact SEi for a complete datasheet.

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