Filtronic

RF SIGNAL SELECTOR QA013

FEATURES:

- E.W. BUILDING BLOCK DESIGNED FOR FIXED WING FIGHTER OR ATTACK HELICOPTER ENVIRONMENTS
- FULLY INTEGRATED WITH OTHER FILTRONIC E.W. BUILDING BLOCKS
- BUILT IN LIMITER PROTECTION
- SELECTABLE INPUTS FOR SIGNAL, B.I.T. OSCILLATOR OR WIDEBAND NOISE
- CURRENTLY IN PRODUCTION

DESCRIPTION:

The QA0013 is a broad band signal selection device intended to be used for band defining at the RF front end of a broad band RWR/ESM receiver. It features highly selective low loss SSS filters which accept signals from the user's antennae in 2-8 and 8-18 GHz bands. The signals are output to the receiver chain which may comprise DLVA and IFM or SHR. FCL manufactures a family of receiver building blocks which may be cascaded for this purpose.

Receiver protection is provided by integral PIN diode limiters and BITE is provided to each band via an internal oscillator to allow testing and calibration of the subsequent receiver chain.

The device exhibits excellent performance tracking and is built to withstand the rigours of fixed wing fighter or attack helicopter environments.

FCL manufactures two other such assemblies, the QA012 which has a single 2-18 GHz input diplexed into 2-8 and 8-18 GHz bands and the QA014 which is a dual receiver designed to cover the 0.4-2 GHz band.

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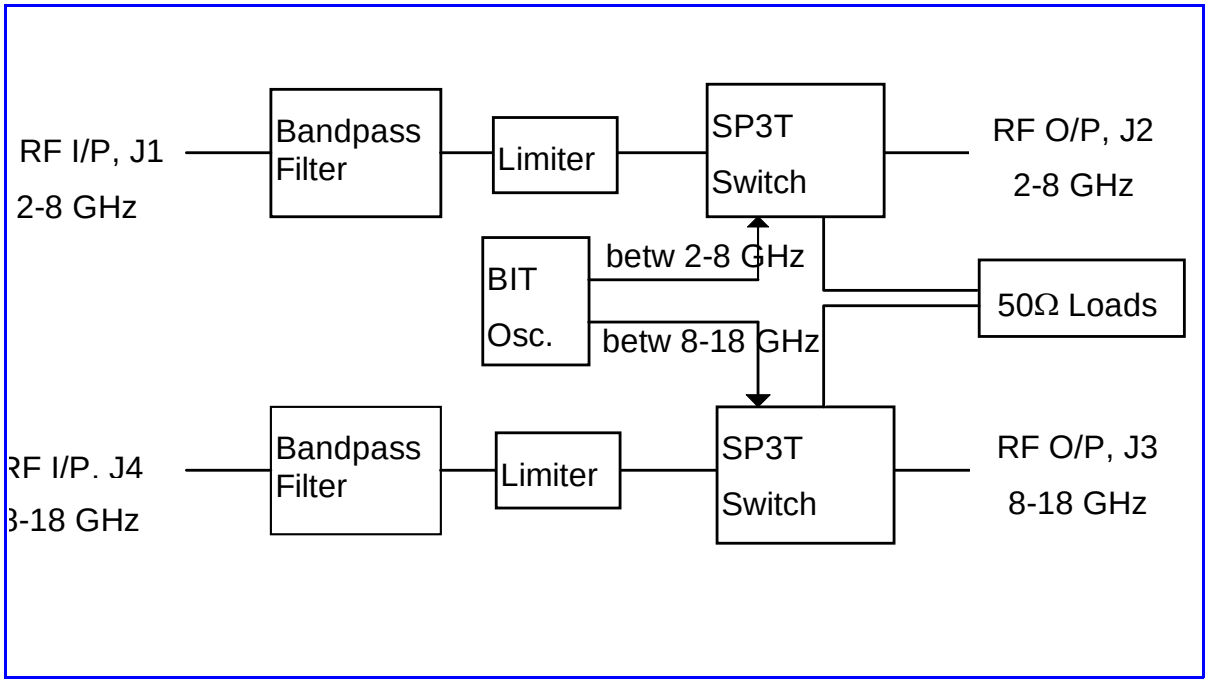
Filtronic

CHARACTERISTICS



QA013 CIRCUIT TOPOLOGY

Performance Summary:

Input Frequency:	***2-8/8-18 GHz***
Stop bands	***10% from band edges***
Stop band Isolation	***60 dB***
Insertion Loss	***6 dB nominal***
Population tracking	***1 dB***
Peak Power Protect	***200W 1 microsec PW .2% duty***
BITE	***Each band +/-0.5% accuracy***
Operating Temperature	***-54 to +85C***

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