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Highpass Filter Passband Runs 2 to 18 GHz

Microwaves and RF

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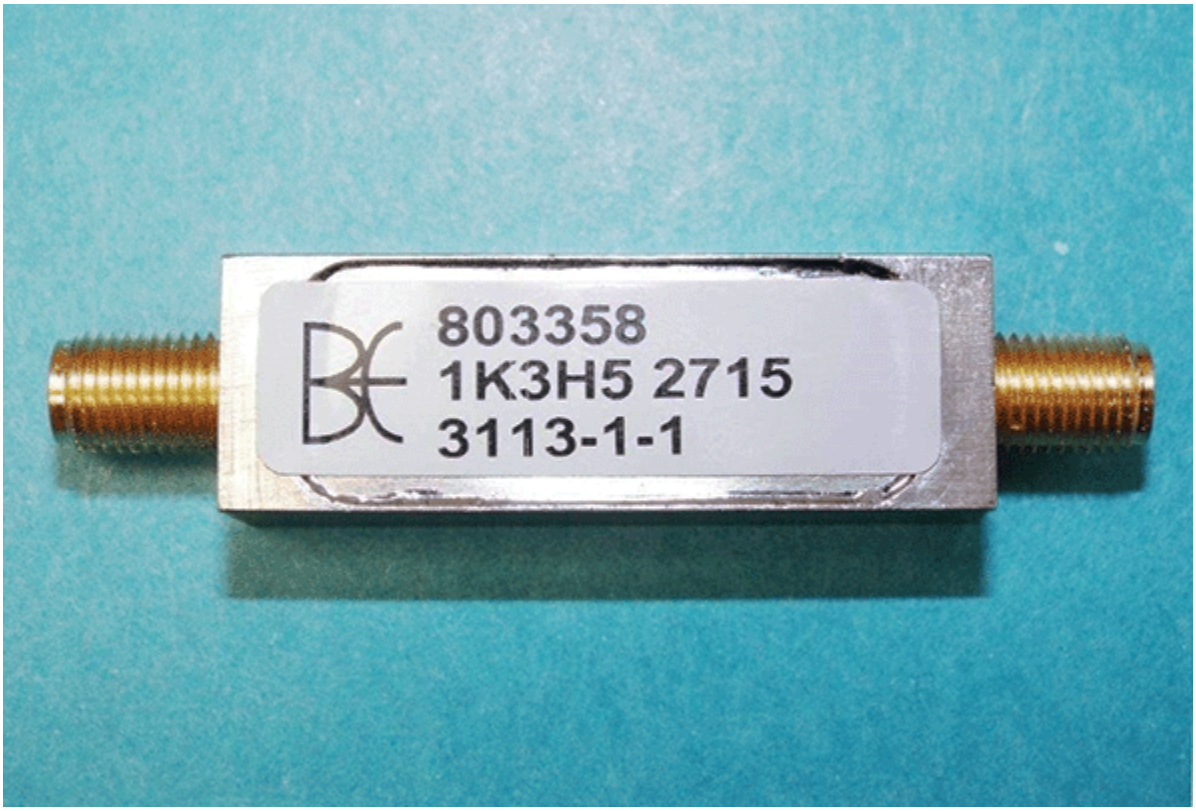

Filtering unwanted signals is an essential function of many electronic systems, including commercial and military platforms such as communications, electronic-warfare (EW), and radar systems. One of the choices for filter responses is the highpass filter, which suppresses signals lower in frequency and ideally passes signals higher in frequency unaffected. Model 803358 is the latest highpass filter from Bree Engineering Corp. with an impressive passband of 2 to 18 GHz. The filter is available from stock for immediate delivery.

The highpass filter achieves 40-dB minimum rejection of signals at frequencies below 1650 MHz, with as much as 70-dB minimum rejection of unwanted signals from dc to1500 MHz. Within the nominal passband from 2 to 18 GHz, the insertion loss is less than 1.2 dB and typically less than 1.0 dB. The return loss is 14 dB or better and typically 17 dB over the passband from 2 to 18 GHz.

The rugged model 803358 highpass filter measures 1.50 × 0.50 × 0.40 in. and is supplied with female SMA coaxial connectors at input and output ports. Other package configurations are also available upon request. The firm offers a wide range of filter types and related products, including lowpass, highpass, bandpass, band-reject filters, multiplexers, switched filter banks, and bias tees for applications from 1 MHz through 20 GHz. All components are available in various package styles, including miniature surface-mount-technology (SMT) packages, with axial and radial pins, and with coaxial connectors.

e Engineering Corp., 1275 Stone Dr., San Marcos, CA 92078; (760) 510-4950.

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