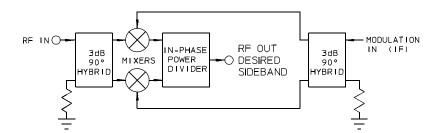
10 to 4000 MHz / Image Rejection up to 30 dB / Two Quad Hybrids / Choice of Packages

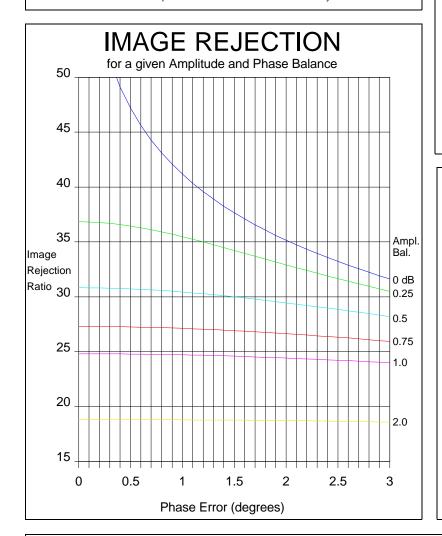




PRINCIPAL SPECIFICATIONS

Model Number	LO Center Frequency, f _o , MHz	Usable Bandwidth, MHz	Outline Style
SSP-2S-***/	10 - 1000	10% of f _o	S
SSP-2U-***/	1000 - 4000	10% of fo	U

A complete model number will be assigned with center frequency ****= f_o and slash number once a full specification is established with the factory.



GENERAL SPECIFICATIONS*

RF/IF Input Characteristics

 $\begin{array}{lll} \mbox{Impedance:} & 50 \ \Omega \ \mbox{nom..} \\ \mbox{VSWR:} & 1.5:1 \ \mbox{max.} \\ \mbox{RF Power Level:} & +10 \ \mbox{dBm} \\ \mbox{IF Power Level:} & 0 \ \mbox{dBm nom.} \\ \mbox{IF Bandwidth:} & \mbox{up to an octave} \end{array}$

RF Bandwidth: 10%

Output Characteristics

Conversion Loss: 9 dB max.
Sideband Suppression: 25 dB min.
Weight: (See outlines)
Temperature Range: -- 55° to +85°C

*Unit operated as upconverter

General Notes:

- 1. Single Sideband Modulators are integrated networks composed of an in-phase power divider, two double balanced mixers and at least one 90° quadrature hybrid.
- 2. The SSP-2 series is suitable for applications where the modulating signal is provided together with one in phase quadrature to it. This permits operation down to DC and eliminates the need for a second 90° quadrature hybrid.
- 3. Units in the SSP-2 series are suitable where the desired and undesired RF sidebands are too close to be effectively separated with a simple bandpass filter or where minimum group delay is required.
- 4. Merrimac Single Sideband Modulators are available in various package options.
- 5. Merrimac Single Sideband Modulators comply with the relevant sections of MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

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10 to 4000 MHz / Image Rejection up to 30 dB / Two Quad Hybrids / Choice of Packages



