

| Model Number | PRINCIPAL SPECIFICATIONS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | RF/LO Frequency, MHz | $\begin{gathered} \text { IF } \\ \text { Frequency, } \\ \mathrm{MHz} \end{gathered}$ | Operating Range, MHz | Conv Loss Max. | rion dB , Typ. | Port L-R dB | $\begin{aligned} & \text { latio } \\ & \text { L-X } \\ & \text { dB } \end{aligned}$ | $\begin{gathered} \text { Min. } \\ \text { R-X } \\ \text { dB } \end{gathered}$ | Polarity Sense |
| DMF-4A-250 | 0.5-500 | DC-500 | 0.5-1 | 8.0 | 7.0 | 40 | 30 | 23 | Pos. |
|  |  |  | 1-300 | 7.0 | 6.0 | 40 | 30 | 23 |  |
|  |  |  | 300-500 | 8.0 | 7.0 | 35 | 20 | 20 |  |
| DMF-4A-500 | 10-1000 | DC - 1000 | 10-50 | 7.5 | 6.5 | 35 | 30 | 25 | Pos. |
|  |  |  | 50-500 | 7.5 | 6.5 | 30 | 25 | 20 |  |
|  |  |  | 500-1000 | 8.5 | 7.5 | 25 | 15 | 15 |  |
| DMF-4A-700 | 10-1500 | DC - 1000 | 10-600 | 8.0 | 7.0 | 30 | 20 | 15 | Neg. |
|  |  |  | 600-1000 | 8.0 | 7.0 | 20 | 12 | 15 |  |
|  |  |  | 1000-1500 | 9.5 | 8.5 | 20 | 12 | 8 |  |
| DMF-4A-1700 | 500-2000 | DC - 1000 | 500-2000 | 8.0 | 6.0 | 25 | 20 | 15 | Neg. |
|  | All specifications are as measured in a $50 \Omega$ system, at nominal LO power, in a down converter application. |  |  |  |  |  |  |  |  |



| GENERAL SPECIFICATIONS |  |
| :---: | :---: |
| LO Drive: | +13 dBm nom. |
| Impedance: | $50 \Omega$ nom. |
| Noise Figure: | Within $\pm 1 \mathrm{~dB}$ of Conversion Loss |
| Maximum Input Power: <br> (derate line | $\begin{aligned} & 300 \mathrm{~mW} @ 25^{\circ} \mathrm{C} \\ & \text { arly to } 0 \mathrm{~mW} @ 125^{\circ} \mathrm{C} \end{aligned}$ |
| 1 dB Comp. Point: | +8 dBm input, typ. |
| Input Intercept Point: | +19 dBm, typ. |
| DC Offset Voltage: | 5 mV typ. |
| Weight: | $0.1 \mathrm{oz}(2.8 \mathrm{~g})$ |
| Operating Temperature: | $-55^{\circ}$ to $+85^{\circ} \mathrm{C}$ |

## General Notes:

The DMF-4A series of Double Balanced Mixers covers the frequency range of 0.5 to 2000 MHz using four high-barrier diodes configured for general purpose as well as high performance applications.

