

FREQUENCY MIXERS

Surface Mount

IMAGE REJECT 500 to 2550 MHz



JCIR

JCIR-4MH (+15 dBm LO)
 JCIR-25 (+13 dBm LO)

| MODEL NO. | FREQUENCY MHz | | | CONVERSION LOSS dB | | | IMAGE REJECTION dBc | | | LO-RF ISOLATION dB | | LO-IF ISOLATION dB | | RF-IF ISOLATION dB | | IP3@ center band (dBm) | CASE STYLE | NO.-OF-PINS | PRICE \$ |
|------------|---------------|--------------|-------|--------------------|----------|------|---------------------|-------|-----------|--------------------|-------------|--------------------|------|--------------------|----|------------------------|------------|-------------|----------|
| | RF f_L-f_U | LO f_L-f_U | IF | \bar{x} | σ | Max. | RF>LO | LO>RF | Typ. Min. | M Typ. Min. | M Typ. Min. | M Typ. Min. | Typ. | QTY. (1-9) | | | | | |
| ◆ JCIR-4MH | 430-930 | 500-1000 | 65-75 | 7.9 | 0.15 | 9.0 | ● | | 28 18 | 55 40 | 25 20 | 25 15 | 20 | BG291 | kj | 54.95 | | | |
| ◆ JCIR-25 | 2490-2550 | 2420-2480 | 57-83 | 7.0 | — | 8.5 | ● | | 27 17 | 35 25 | 26 18 | 25 | 16 | BG291 | kk | 44.95 | | | |

L = low range [f_L to $10 f_L$]

M = mid range [$10 f_L$ to $f_U/2$]

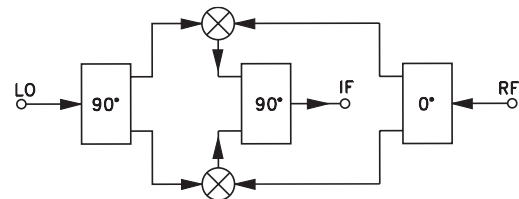
U = upper range [$f_U/2$ to f_U]

features

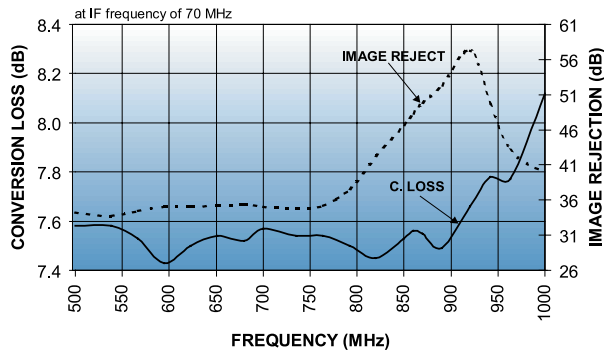
- excellent image rejection, 28 dB typ. (JCIR-4MH)
- low conversion loss, 7.9 dB typ. (JCIR-4MH)
7.0 dB typ. (JCIR-25)
- solder plated J-leads for excellent solderability & strain relief

applications

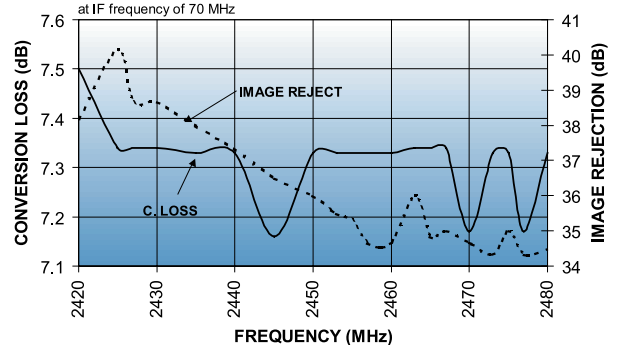
- cellular
- ISM



JCIR-4MH
 CONVERSION LOSS & IMAGE REJECTION



JCIR-25
 CONVERSION LOSS & IMAGE REJECTION



NOTES:

- ◆ Aqueous washable.
- A. Environmental specifications and re-flow soldering information available in General Information Section.
- B. Units are non-hermetic unless otherwise noted. For details on case dimensions & finishes see "Case Styles & Outline Drawings".
- C. Prices and Specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current ratings:
 - 1a. RF power 100mW (JCIR-4MH); 200mW (JCIR-25)
 - 1b. IF current, 40mA

pin connections

see case style outline drawings

| PORT | kj | kk |
|-------------|----------------------------|---------------------------------|
| LO | 2 | 9 |
| RF | 9 | 2 |
| IF | 11 | 11 |
| GND | 1,3,5,6,7,8 10,12,13,14 | 1,3,4,5,6,7,8 10, 12, 13, 14 |
| 50 OHM TERM | 4 | — |

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