

# MIXERS

## TRIPLE-BALANCED

**LO = +13 dBm**

**HIGH DYNAMIC RANGE**



### THROUGH HOLE (RELAY)

| FREQUENCY RANGE (MHz) |           | CONVERSION LOSS (dB) |                      | LO-RF ISOLATION (dB) |               |               | LO-IF ISOLATION (dB) |               |               | PACKAGE | PIN OUT | MODEL   |
|-----------------------|-----------|----------------------|----------------------|----------------------|---------------|---------------|----------------------|---------------|---------------|---------|---------|---------|
| RF/LO                 | IF        | XMB<br>TYP/MAX       | FULL BAND<br>TYP/MAX | LB<br>TYP/MIN        | MB<br>TYP/MIN | UB<br>TYP/MIN | LB<br>TYP/MIN        | MB<br>TYP/MIN | UB<br>TYP/MIN |         |         |         |
| 0.5 - 2000            | 0.2 - 600 | 5.8/8                | 7.2/9.5              | 60/45                | 35/30         | 30/25         | 55/40                | 30/25         | 25/20         | 105     | 1       | CMP-3A6 |
| 10 - 4200             | 10 - 1000 | 7.5/8.5              | 7.5/11               | 35/25                | 40/25         | 35/25         | 35/20                | 35/25         | 27/20         | 105     | 2       | CMP-3A8 |



### THROUGH HOLE (TO-CAN)

| FREQUENCY RANGE (MHz) |           | CONVERSION LOSS (dB) |                      | LO-RF ISOLATION (dB) |               |               | LO-IF ISOLATION (dB) |               |               | PACKAGE | PIN OUT | MODEL   |
|-----------------------|-----------|----------------------|----------------------|----------------------|---------------|---------------|----------------------|---------------|---------------|---------|---------|---------|
| RF/LO                 | IF        | XMB<br>TYP/MAX       | FULL BAND<br>TYP/MAX | LB<br>TYP/MIN        | MB<br>TYP/MIN | UB<br>TYP/MIN | LB<br>TYP/MIN        | MB<br>TYP/MIN | UB<br>TYP/MIN |         |         |         |
| 5 - 2500              | 10 - 1000 | 6.4/8.5              | 7/9.5                | 33/25                | 35/25         | 25/20         | 33/20                | 30/25         | 27/20         | 104     | 3       | CMP-6A7 |

#### NOTES:

1. 1dB Compression Point = +10 dBm (Typ)
2. IP3 (Input) = +20 dBm (Typ)
3. As IF frequency decrease below LF towards DC, conversion loss increases up to 8 dB higher than maximum.
4. Maximum Input Power without damage = 500 mW ave. cw

XMB= 2LF to HF/2  
 FULL BAND = LF to HF  
 LB= LF to 10LF  
 MB = 10LF to HF/2  
 UB= HF/2 to HF

#### PIN-OUT TABLE

|    | RF | LO | IF | GND        | CASE GND | NO CONN. |
|----|----|----|----|------------|----------|----------|
| #1 | 1  | 4  | 2  | 3          | 3        | --       |
| #2 | 4  | 1  | 2  | 3          | 3        | --       |
| #3 | 2  | 8  | 11 | All Others | --       | --       |

GND = Ground externally

For pin location and package outline drawings, see back pages.