

FEATURE:

- Frequency: 0.5~18GHz
- SSB Rejection: 30dBc(type)
- Field Removable SMA(F) Connector, Drop-IN Type
- Low Conversion Loss
- Low LO Drive Power



APPLICATION:

- Test equipment
- Radar & Electronic Warfare
- Communication system

SPECIFICATIONS@25°C:

| Part Number | LO Carrier Frequency Range(GHz) | RF (GHz) | IF modulation frequency range(MHz) | LO Power (dBm) | IF Power (dBm) | Conversion Loss(dB) | Carrier Suppression (dBc) | Sideband Suppression (dBc) | Carrier fundamental IF(dBc) | Carrier ± 2 IF, 4 IF, etc (dBc.typ) | Carrier ± 3 IF(dBc.typ) | Case Type |
|-----------------|---------------------------------|----------|------------------------------------|----------------|----------------|---------------------|---------------------------|----------------------------|-----------------------------|---|-----------------------------|-----------|
| MMB0203S0004LMA | 0.3-2.5 | 0.3-2.5 | DC-40 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB10 |
| MMB0502S0007LMA | 0.5-2 | 0.5-2 | DC-700 | ± 3 | 5 | 6 | 25 | 33 | 30 | 50 | 40 | MB10 |
| MMB0102S1020MM | 1-2 | 1-2 | 100-200 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0102S1020LM | 1-2 | 1-2 | 100-200 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0102S1020HM | 1-2 | 1-2 | 100-200 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0102S0204HM | 1-2 | 1-2 | 20-40 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0102S0408MM | 1-2 | 1-2 | 40-80 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0102S0408LM | 1-2 | 1-2 | 40-80 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0102S0408HM | 1-2 | 1-2 | 40-80 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0102S0204MM | 1-2 | 1-2 | 20-40 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0102S0204LM | 1-2 | 1-2 | 20-40 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0306S0204HM | 1-2 | 1-2 | 20-40 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0104S1020MM | 1-4 | 1-4 | 100-200 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0104S1020LM | 1-4 | 1-4 | 100-200 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0104S1020HM | 1-4 | 1-4 | 100-200 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0104S0408MM | 1-4 | 1-4 | 40-80 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0104S0408LM | 1-4 | 1-4 | 40-80 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0104S0408HM | 1-4 | 1-4 | 40-80 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0104S0204MM | 1-4 | 1-4 | 20-40 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0104S0204LM | 1-4 | 1-4 | 20-40 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0104S0204HM | 1-4 | 1-4 | 20-40 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0204S1020MM | 2-4 | 2-4 | 100-200 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB7 |
| MMB0204S1020LM | 2-4 | 2-4 | 100-200 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB7 |
| MMB0204S1020HM | 2-4 | 2-4 | 100-200 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB7 |
| MMB0204S0408MM | 2-4 | 2-4 | 40-80 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB7 |
| MMB0204S0408LM | 2-4 | 2-4 | 40-80 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB7 |



SINGLE-SIDEBAND UPCONVERTER MODULATOR

| Part Number | LO Carrier Frequency Range(GHz) | RF (GHz) | IF modulation frequency range(MHz) | LO Power (dBm) | IF Power (dBm) | Conversion Loss(dB) | Carrier Suppression (dBc) | Sideband Suppression (dBc) | Carrier fundamental IF(dBc) | Carrier ± 2 IF, 4 IF, etc (dBc.typ) | Carrier ± 3 IF(dBc.typ) | Case Type |
|----------------|---------------------------------|----------|------------------------------------|----------------|----------------|---------------------|---------------------------|----------------------------|-----------------------------|---|-----------------------------|-----------|
| MMB0204S0408HM | 2-4 | 2-4 | 40-80 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB7 |
| MMB0204S0204MM | 2-4 | 2-4 | 20-40 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB7 |
| MMB0204S0204LM | 2-4 | 2-4 | 20-40 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB7 |
| MMB0204S0204HM | 2-4 | 2-4 | 20-40 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB7 |
| MMB0204S0608MM | 2-4 | 24 | 55-80 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 50 | MB28 |
| MMB0208S1020MM | 2-8 | 2-8 | 100-200 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0208S1020LM | 2-8 | 2-8 | 100-200 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0208S1020HM | 2-8 | 2-8 | 100-200 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0208S0408MM | 2-8 | 2-8 | 40-80 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0208S0408LM | 2-8 | 2-8 | 40-80 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB6 |
| MMB0208S0408HM | 2-8 | 2-8 | 40-80 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0208S0204MM | 2-8 | 2-8 | 20-40 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0208S0204LM | 2-8 | 2-8 | 20-40 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0208S0204HM | 2-8 | 2-8 | 20-40 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0306S2040LM | 3-6 | 3-6 | 200-400 | 10 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0306S1020MM | 3-6 | 3-6 | 100-200 | 13 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0306S1020LM | 3-6 | 3-6 | 100-200 | 10 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0306S1020HM | 3-6 | 3-6 | 100-200 | 17 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0306S0408MM | 3-6 | 3-6 | 40-80 | 13 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0306S0408LM | 3-6 | 3-6 | 40-80 | 10 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0306S0408HM | 3-6 | 3-6 | 40-80 | 17 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0306S0204MM | 3-6 | 3-6 | 20-40 | 13 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0306S0204LM | 3-6 | 3-6 | 20-40 | 10 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0306S0204HM | 3-6 | 3-6 | 20-40 | 17 | 5 | 7 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0307S1020MM | 3-7 | 3-7 | 100-200 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0307S1020LM | 3-7 | 3-7 | 100-200 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0307S1020HM | 3-7 | 3-7 | 100-200 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0307S0306HM | 3-7 | 3-7 | 30-60 | 17 | 3 | 8 | 25 | 30 | 30 | 40 | 40 | MB5 |
| MMB0307S0408MM | 3-7 | 3-7 | 40-80 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0307S0408LM | 3-7 | 3-7 | 40-80 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0307S0408HM | 3-7 | 3-7 | 40-80 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0307S0204MM | 3-7 | 3-7 | 20-40 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0307S0204LM | 3-7 | 3-7 | 20-40 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0307S0204HM | 3-7 | 3-7 | 20-40 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0408S1020MM | 4-8 | 4-8 | 100-200 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |



SINGLE-SIDEBAND UPCONVERTER MODULATOR

| Part Number | LO Carrier Frequency Range(GHz) | RF (GHz) | IF modulation frequency range(MHz) | LO Power (dBm) | IF Power (dBm) | Conversion Loss(dB) | Carrier Suppression (dBc) | Sideband Suppression (dBc) | Carrier fundamental IF(dBc) | Carrier ± 2 IF, 4 IF, etc (dBc.typ) | Carrier ± 3 IF(dBc.typ) | Case Type |
|----------------|---------------------------------|----------|------------------------------------|----------------|----------------|---------------------|---------------------------|----------------------------|-----------------------------|---|-----------------------------|-----------|
| MMB0408S1020LM | 4-8 | 4-8 | 100-200 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0408S1020HM | 4-8 | 4-8 | 100-200 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0408S0408MM | 4-8 | 4-8 | 40-80 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0408S0408LM | 4-8 | 4-8 | 40-80 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0408S0408HM | 4-8 | 4-8 | 40-80 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0408S0204MM | 4-8 | 4-8 | 20-40 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0408S0204LM | 4-8 | 4-8 | 20-40 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0408S0204HM | 4-8 | 4-8 | 20-40 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0410S1020MM | 4-10 | 4-10 | 100-200 | 13 | 5 | 6 | 25 | 35 | 30 | 50 | 40 | MB5 |
| MMB0410S1020LM | 4-10 | 4-10 | 100-200 | 10 | 5 | 6 | 25 | 35 | 30 | 50 | 40 | MB5 |
| MMB0410S1020HM | 4-10 | 4-10 | 100-200 | 17 | 5 | 6 | 25 | 35 | 30 | 50 | 40 | MB5 |
| MMB0410S0408MM | 4-10 | 4-10 | 40-80 | 13 | 5 | 6 | 25 | 35 | 30 | 50 | 40 | MB5 |
| MMB0410S0408LM | 4-10 | 4-10 | 40-80 | 10 | 5 | 6 | 25 | 35 | 30 | 50 | 40 | MB5 |
| MMB0410S0408HM | 4-10 | 4-10 | 40-80 | 17 | 5 | 6 | 25 | 35 | 30 | 50 | 40 | MB5 |
| MMB0410S0204MM | 4-10 | 4-10 | 20-40 | 13 | 5 | 6 | 25 | 35 | 30 | 50 | 40 | MB5 |
| MMB0410S0204LM | 4-10 | 4-10 | 20-40 | 10 | 5 | 6 | 25 | 35 | 30 | 50 | 40 | MB5 |
| MMB0410S0204HM | 4-10 | 4-10 | 20-40 | 17 | 5 | 6 | 25 | 35 | 30 | 50 | 40 | MB5 |
| MMB0510S1020MM | 5-10 | 5-10 | 100-200 | 13 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0510S1020LM | 5-10 | 5-10 | 100-200 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0510S1020HM | 5-10 | 5-10 | 100-200 | 17 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0510S0408MM | 5-10 | 5-10 | 40-80 | 13 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0510S0408LM | 5-10 | 5-10 | 40-80 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0510S0408HM | 5-10 | 5-10 | 40-80 | 17 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0510S0204MM | 5-10 | 5-10 | 20-40 | 13 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0510S0204LM | 5-10 | 5-10 | 20-40 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0510S0204HM | 5-10 | 5-10 | 20-40 | 17 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0610S0102LM | 6-10 | 6-10 | 10-20 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0612S1020MM | 6-12 | 6-12 | 100-200 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0612S1020LM | 6-12 | 6-12 | 100-200 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0612S1020HM | 6-12 | 6-12 | 100-200 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0612S0408MM | 6-12 | 6-12 | 40-80 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0612S0408LM | 6-12 | 6-12 | 40-80 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0612S0408HM | 6-12 | 6-12 | 40-80 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0612S0204MM | 6-12 | 6-12 | 20-40 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |



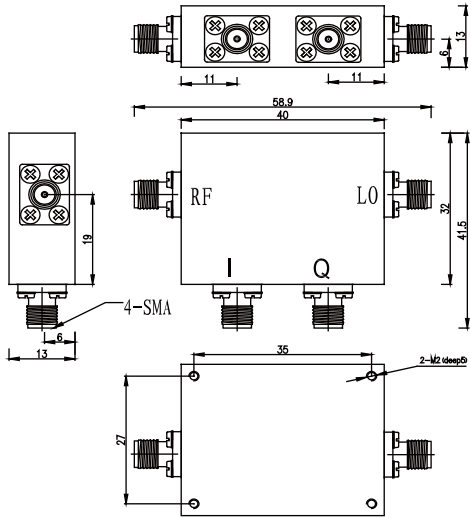
SINGLE-SIDEBAND UPCONVERTER MODULATOR

| Part Number | LO Carrier Frequency Range(GHz) | RF (GHz) | IF modulation frequency range(MHz) | LO Power (dBm) | IF Power (dBm) | Conversion Loss(dB) | Carrier Suppression (dBc) | Sideband Suppression (dBc) | Carrier fundamental IF(dBc) | Carrier ± 2 IF, 4 IF, etc (dBc.typ) | Carrier ± 3 IF(dBc.typ) | Case Type |
|----------------|---------------------------------|----------|------------------------------------|----------------|----------------|---------------------|---------------------------|----------------------------|-----------------------------|---|-----------------------------|-----------|
| MMB0612S0204LM | 6-12 | 6-12 | 20-40 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0612S0204HM | 6-12 | 6-12 | 20-40 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0618S0408MM | 6-18 | 6-18 | 40-80 | 13 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0618S0408LM | 6-18 | 6-18 | 40-80 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0618S0408HM | 6-18 | 6-12 | 40-80 | 17 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0618S0204MM | 6-18 | 6-18 | 20-40 | 13 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0618S0204LM | 6-18 | 6-18 | 20-40 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0618S0204HM | 6-18 | 6-18 | 20-40 | 17 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0618S1020LM | 6-18 | 6-18 | 100-200 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0618S1020HM | 6-18 | 6-18 | 100-200 | 17 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0618S1020MM | 6-18 | 6-18 | 100-200 | 13 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0714S1020MM | 7-14 | 7-14 | 100-200 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0714S1020LM | 7-14 | 7-14 | 100-200 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0714S1020HM | 7-14 | 7-14 | 100-200 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0714S0408LM | 7-14 | 7-14 | 40-80 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0714S0408HM | 7-14 | 7-14 | 40-80 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0714S0408MM | 7-14 | 7-14 | 40-80 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0714S0204HM | 7-14 | 7-14 | 20-40 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0714S0204LM | 7-14 | 7-14 | 20-40 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0714S0204MM | 7-14 | 7-14 | 20-40 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0812S0102LM | 8-12 | 8-12 | 10-20 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0812S1020MM | 8-12 | 8-12 | 100-200 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0812S1020LM | 8-12 | 8-12 | 100-200 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0812S1020HM | 8-12 | 8-12 | 100-200 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0812S0408MM | 8-12 | 8-12 | 40-80 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0812S0408LM | 8-12 | 8-12 | 40-80 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0812S0408HM | 8-12 | 8-12 | 40-80 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0812S0204MM | 8-12 | 8-12 | 20-40 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0812S0204LM | 8-12 | 8-12 | 20-40 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0812S0204HM | 8-12 | 8-12 | 20-40 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB0816S1020MM | 8-16 | 8-16 | 100-200 | 13 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0816S1020LM | 8-16 | 8-16 | 100-200 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0816S1020HM | 8-16 | 8-16 | 100-200 | 17 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0816S0408MM | 8-16 | 8-16 | 40-80 | 13 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |

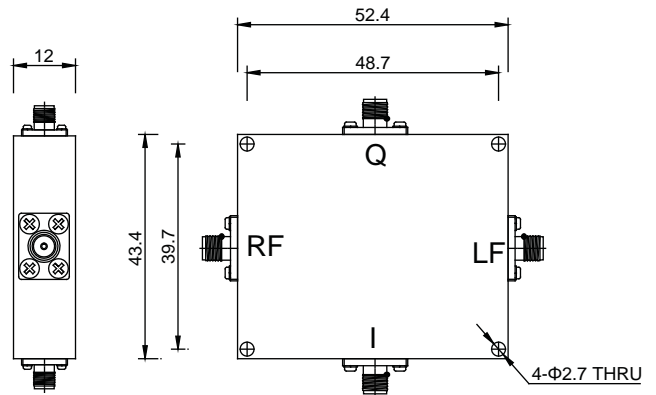


SINGLE-SIDEBAND UPCONVERTER MODULATOR

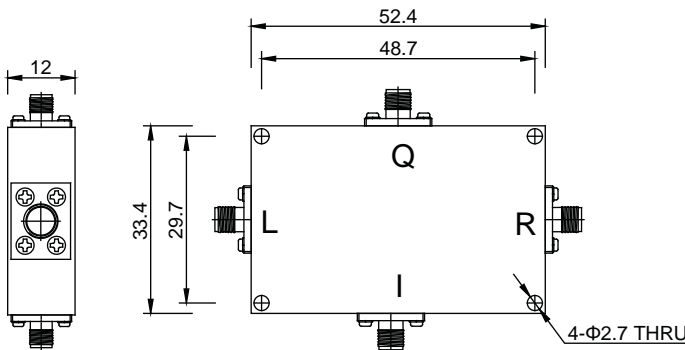
| Part Number | LO Carrier Frequency Range(GHz) | RF (GHz) | IF modulation frequency range(MHz) | LO Power (dBm) | IF Power (dBm) | Conversion Loss(dB) | Carrier Suppression (dBc) | Sideband Suppression (dBc) | Carrier fundamental IF(dBc) | Carrier ± 2 IF, 4 IF, etc (dBc.typ) | Carrier ± 3 IF(dBc.typ) | Case Type |
|----------------|---------------------------------|----------|------------------------------------|----------------|----------------|---------------------|---------------------------|----------------------------|-----------------------------|---|-----------------------------|-----------|
| MMB0816S0408LM | 8-16 | 8-16 | 40-80 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0816S0408HM | 8-16 | 8-16 | 40-80 | 17 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0816S0204MM | 8-16 | 8-16 | 20-40 | 13 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0816S0204LM | 8-16 | 8-16 | 20-40 | 10 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0816S0204HM | 8-16 | 8-16 | 20-40 | 17 | 5 | 6 | 25 | 25 | 30 | 50 | 40 | MB5 |
| MMB0818S1020MM | 8-18 | 8-18 | 100-200 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0818S1020LM | 8-18 | 8-18 | 100-200 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0818S1020HM | 8-18 | 8-18 | 100-200 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0818S0408MM | 8-18 | 8-18 | 40-80 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0818S0408LM | 8-18 | 8-18 | 40-80 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0818S0408HM | 8-18 | 8-18 | 40-80 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0818S0204MM | 8-18 | 8-18 | 20-40 | 13 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0818S0204LM | 8-18 | 8-18 | 20-40 | 10 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB0818S0204HM | 8-18 | 8-18 | 20-40 | 17 | 5 | 6 | 25 | 30 | 30 | 50 | 40 | MB5 |
| MMB1218S1020MM | 12-18 | 12-18 | 100-200 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB1218S1020LM | 12-18 | 12-18 | 100-200 | 10 | 5 | 13 | 25 | 20 | 30 | 50 | 40 | MB13 |
| MMB1218S1020HM | 12-18 | 12-18 | 100-200 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB1218S0408MM | 12-18 | 12-18 | 40-80 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB1218S0408LM | 12-18 | 12-18 | 40-80 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB1218S0408HM | 12-18 | 12-18 | 40-80 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB1218S0204MM | 12-18 | 12-18 | 20-40 | 13 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB1218S0204LM | 12-18 | 12-18 | 20-40 | 10 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |
| MMB1218S0204HM | 12-18 | 12-18 | 20-40 | 17 | 5 | 6 | 25 | 20 | 30 | 50 | 40 | MB5 |



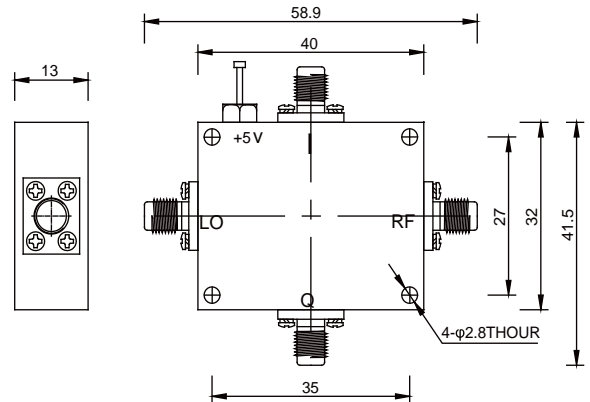
MB5



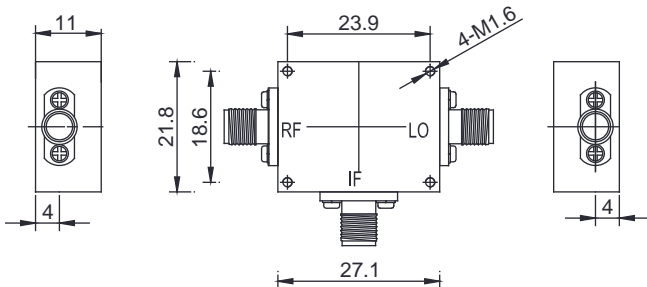
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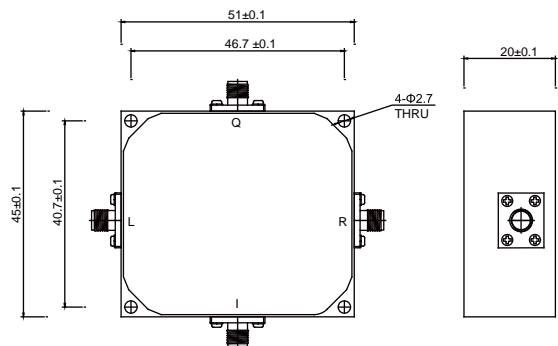
BM7



MB10



MB13



MB28