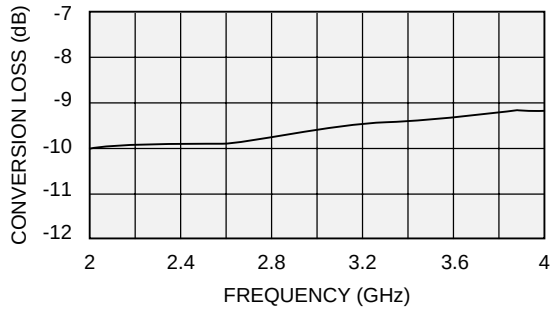
PASSIVE FREQUENCY DOUBLERS

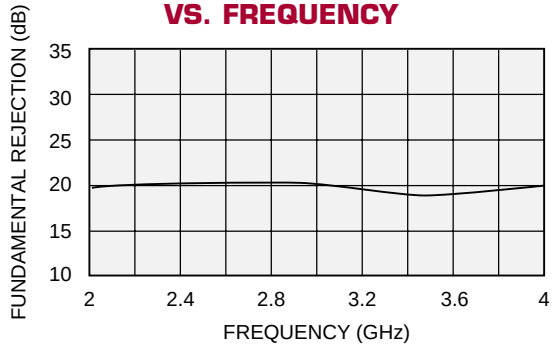
MODEL: MX2M020040

ELECTRICAL SPECIFICATIONS	
Input frequency range	1 – 2 GHz minimum
Output frequency range	2 – 4 GHz minimum
Input power range	8 – 12 dBm nominal
Conversion loss	9.5 dB typical 13 dB maximum
Harmonic rejection Fundamental Odd harmonic	 20 dB typical 20 dB typical

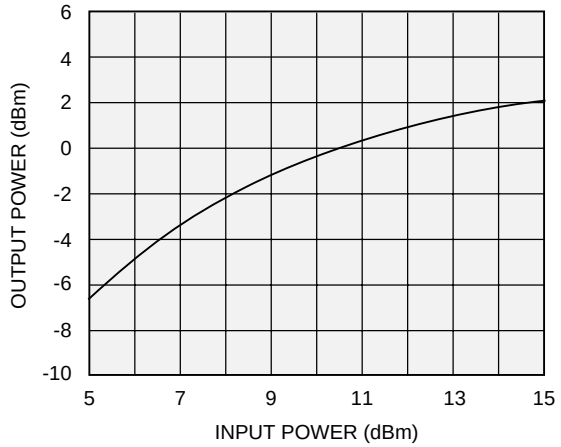
CONVERSION LOSS VS. FREQUENCY



FUNDAMENTAL REJECTION VS. FREQUENCY

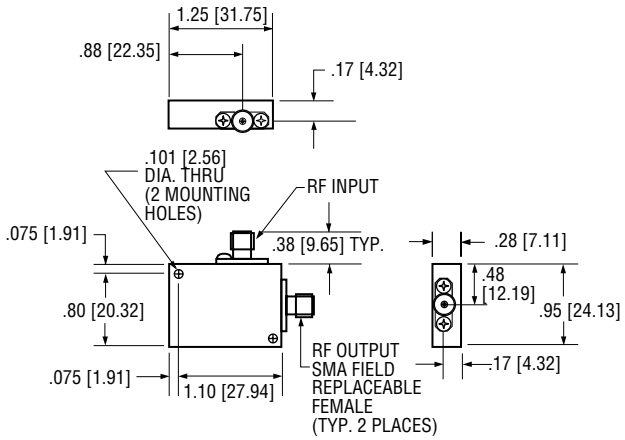


OUTPUT POWER VS. INPUT POWER



(P_{IN} = +10 dBm)

MX2A



Notes:

1. Dimensions are in inches [millimeters]
   Tolerance as follows:
   .xx = ±0.01 [.xx = ±0.25]
   .xxx = ±0.005 [.xxx = ±0.13]

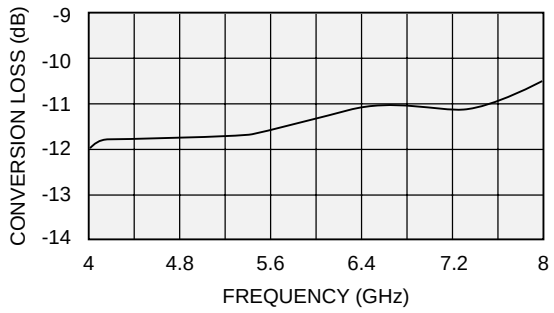
2. Optional SMA, K or V type male connectors in either input, output or both.

MODEL: MX2M040080

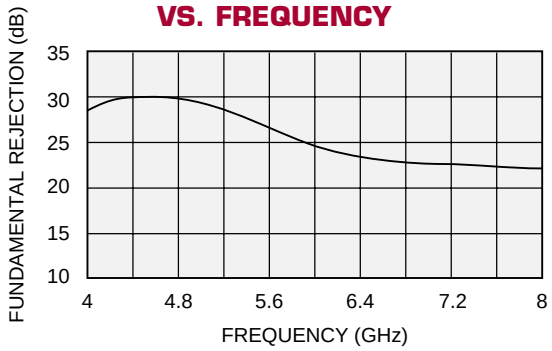
ELECTRICAL SPECIFICATIONS

Input frequency range	2 – 4 GHz minimum
Output frequency range	4 – 8 GHz minimum
Input power range	8 – 12 dBm nominal
Conversion loss	11 dB typical 13 dB maximum
Harmonic rejection Fundamental Odd harmonic	 20 dB typical 20 dB typical

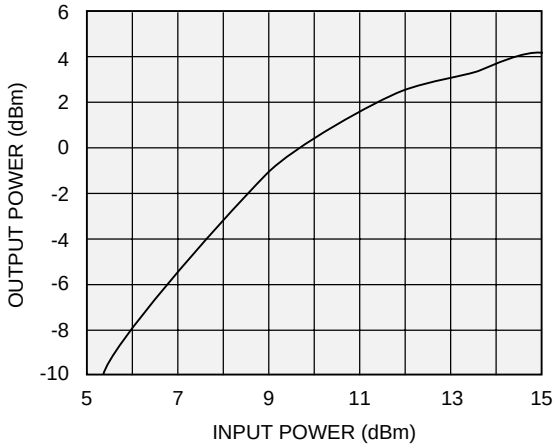
CONVERSION LOSS VS. FREQUENCY



FUNDAMENTAL REJECTION VS. FREQUENCY

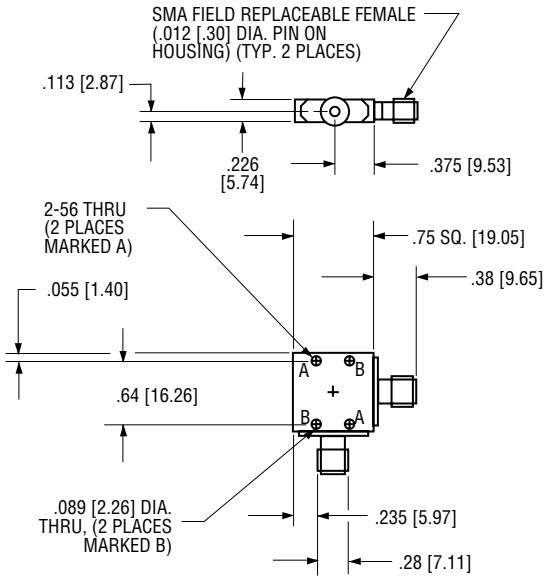


OUTPUT POWER VS. INPUT POWER



(P_{IN} = +10 dBm)

MX2B



Notes:

1. Dimensions are in inches [millimeters]
   Tolerance as follows:
   .xx = ±0.01 [.xx = ±0.25]
   .xxx = ±0.005 [.xxx = ±0.13]

2. Optional SMA, K or V type male connectors in either input, output or both.

3. Optional MX2C package available, see outline section.

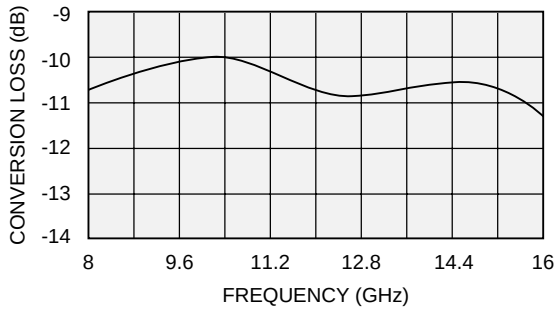
PASSIVE FREQUENCY DOUBLERS (CONT.)

MODEL: MX2M080160

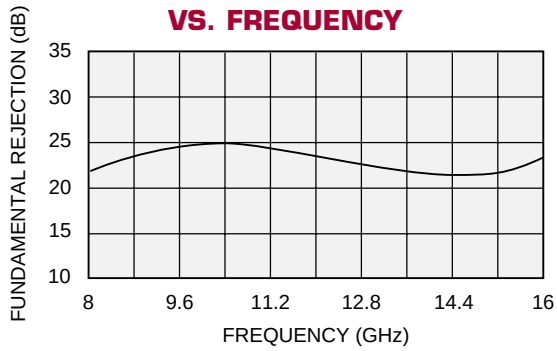
ELECTRICAL SPECIFICATIONS

Input frequency range	4 – 8 GHz minimum
Output frequency range	8 – 16 GHz minimum
Input power range	8 – 12 dBm nominal
Conversion loss	11 dB typical 13 dB maximum
Harmonic rejection	
Fundamental	20 dB typical
Odd harmonic	20 dB typical

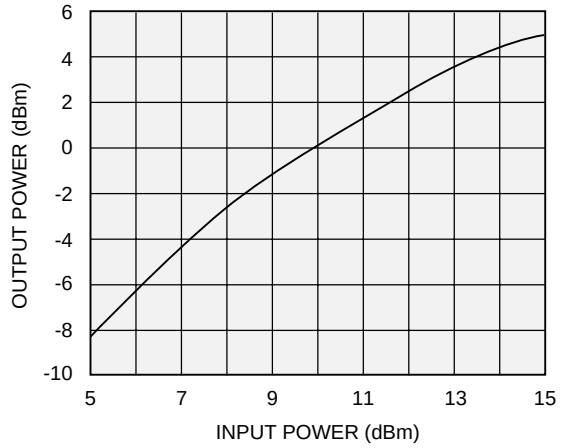
CONVERSION LOSS VS. FREQUENCY



FUNDAMENTAL REJECTION VS. FREQUENCY

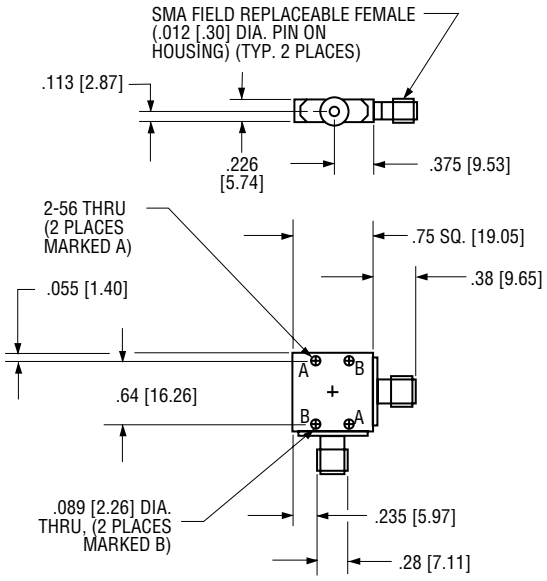


OUTPUT POWER VS. INPUT POWER



(P_{IN} = +10 dBm)

MX2B



Notes:

1. Dimensions are in inches [millimeters]
   Tolerance as follows:
   .xx = ±0.01 [.xx = ±0.25]
   .xxx = ±0.005 [.xxx = ±0.13]

2. Optional SMA, K or V type male connectors in either input, output or both.

3. Optional MX2C package available, see outline section.

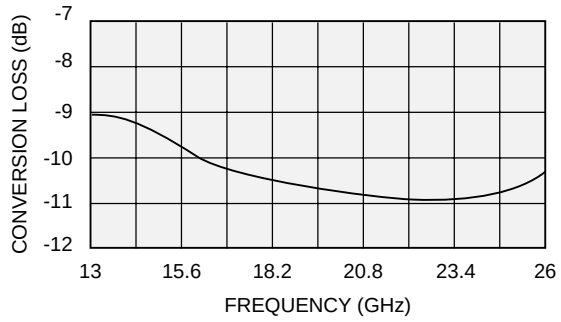
PASSIVE FREQUENCY DOUBLERS (CONT.)

MODEL: MX2M130260

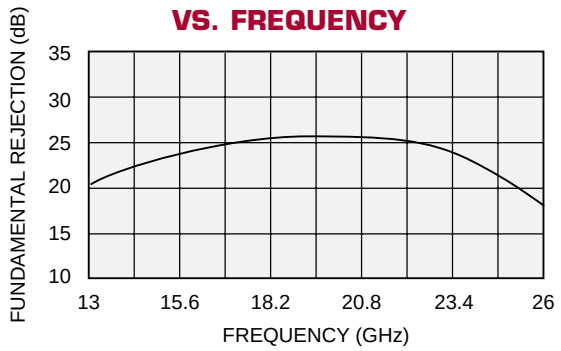
ELECTRICAL SPECIFICATIONS

Input frequency range	6.5 – 13 GHz minimum
Output frequency range	13 – 26 GHz minimum
Input power range	8 – 12 dBm nominal
Conversion loss	11 dB typical 13 dB maximum
Harmonic rejection Fundamental Odd harmonic	 20 dB typical 20 dB typical

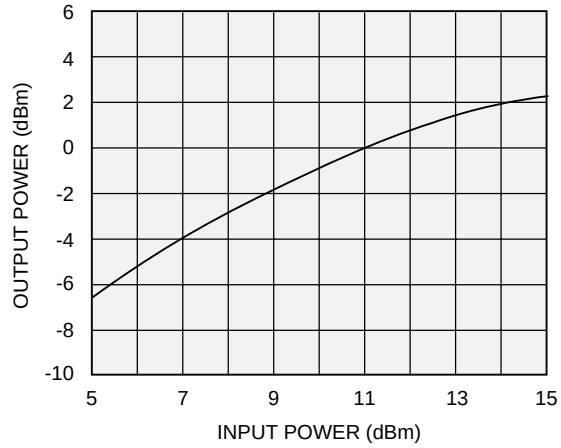
CONVERSION LOSS VS. FREQUENCY



FUNDAMENTAL REJECTION VS. FREQUENCY

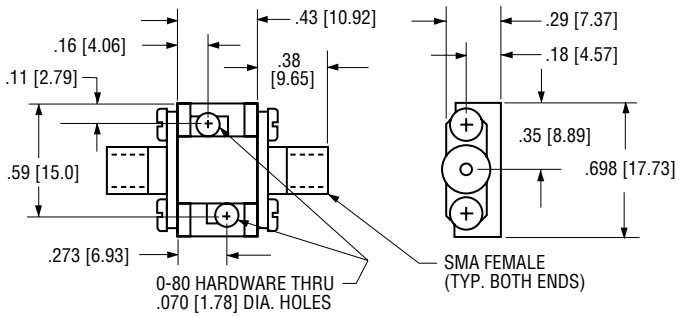


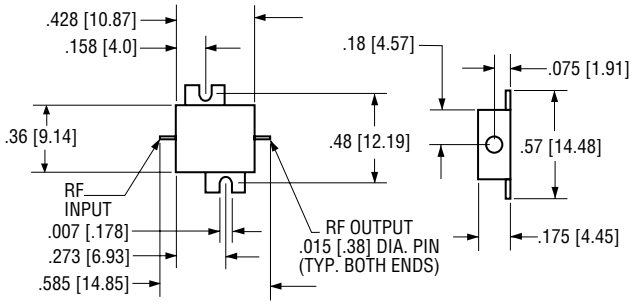
OUTPUT POWER VS. INPUT POWER



(P_{IN} = +10 dBm)

MX2D





Notes:

1. Dimensions are in inches [millimeters]
   Tolerance as follows:
   .xx = ±0.01 [.xx = ±0.25]
   .xxx = ±0.005 [.xxx = ±0.13]

2. Optional SMA, K or V type male connectors in either input, output or both.

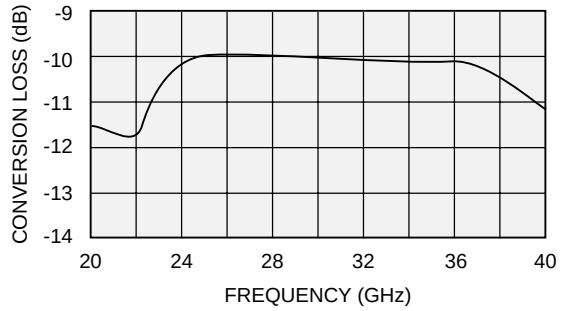
3. Doubler may be readily used as is, or as a drop-in by removing the SMA connectors and mounting hardware as shown.

PASSIVE FREQUENCY DOUBLERS (CONT.)

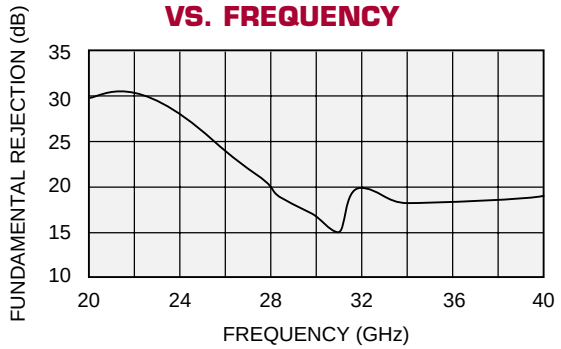
MODEL: MX2M260400

ELECTRICAL SPECIFICATIONS	
Input frequency range	13 – 20 GHz minimum
Output frequency range	26 – 40 GHz minimum
Input power range	8 – 12 dBm nominal
Conversion loss	10 dB typical 13 dB maximum
Harmonic rejection Fundamental Odd harmonic	 15 dB typical 15 dB typical

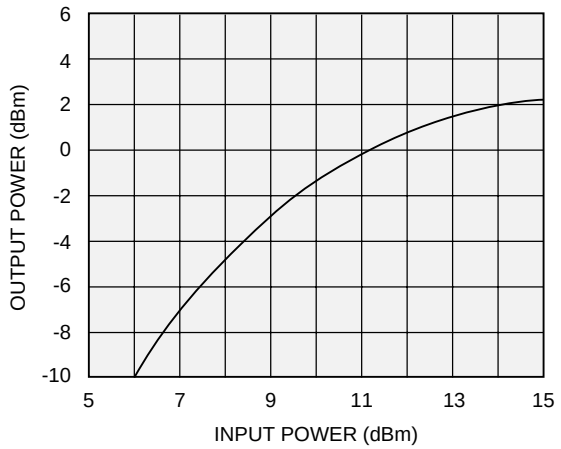
CONVERSION LOSS VS. FREQUENCY



FUNDAMENTAL REJECTION VS. FREQUENCY

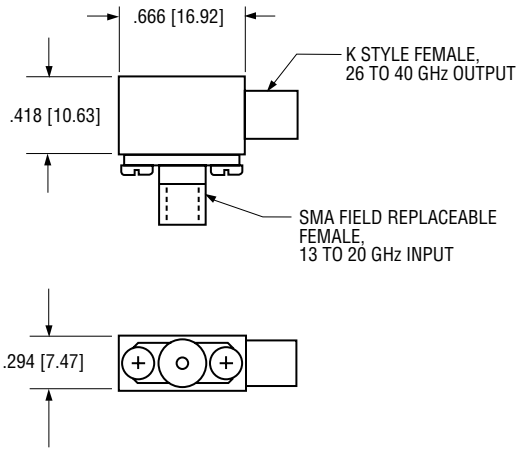


OUTPUT POWER VS. INPUT POWER



(P_{IN} = +10 dBm)

MX2E



Notes:

1. Dimensions are in inches [millimeters]
   Tolerance as follows:
   .xx = ±0.01 [.xx = ±0.25]
   .xxx = ±0.005 [.xxx = ±0.13]

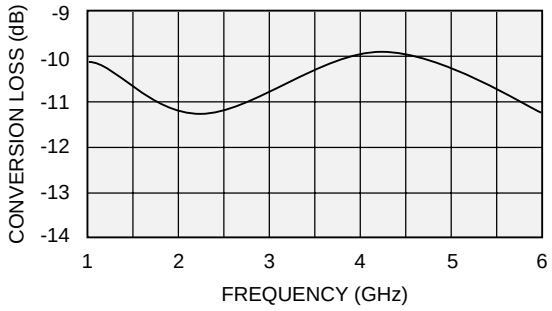
2. Optional SMA, K or V type male connectors in either input, output or both.

PASSIVE FREQUENCY DOUBLERS (CONT.)

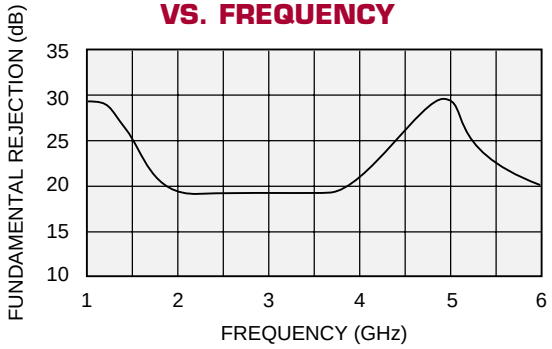
MODEL: MX2M010060

ELECTRICAL SPECIFICATIONS	
Input frequency range	0.5 – 3 GHz minimum
Output frequency range	1 – 6 GHz minimum
Input power range	8 – 12 dBm nominal
Conversion loss	10.5 dB typical 15 dB maximum
Harmonic rejection Fundamental Odd harmonic	 15 dB typical 20 dB typical

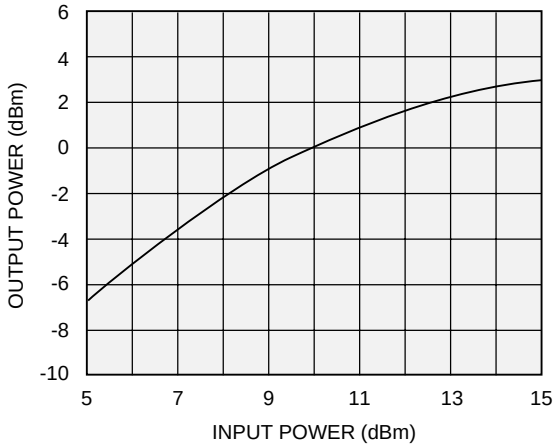
CONVERSION LOSS VS. FREQUENCY



FUNDAMENTAL REJECTION VS. FREQUENCY

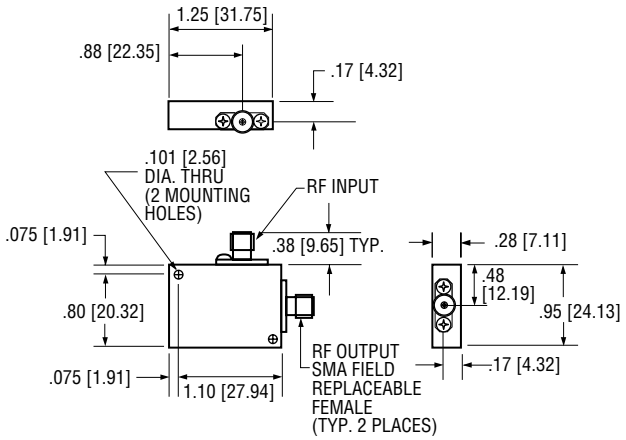


OUTPUT POWER VS. INPUT POWER



(P_{IN} = +10 dBm)

MX2A



Notes:

1. Dimensions are in inches [millimeters]
   Tolerance as follows:
   .xx = ±0.01 [.xx = ±0.25]
   .xxx = ±0.005 [.xxx = ±0.13]

2. Optional SMA, K or V type male connectors in either input, output or both.

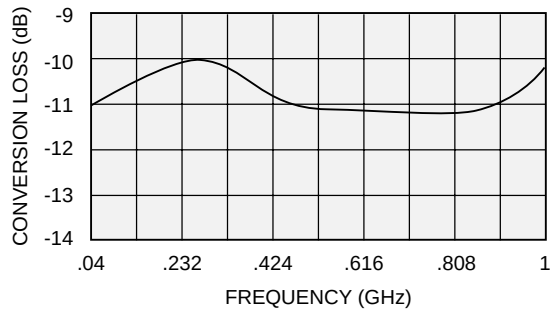
PASSIVE FREQUENCY DOUBLERS (CONT.)

MODEL: MX2M004010

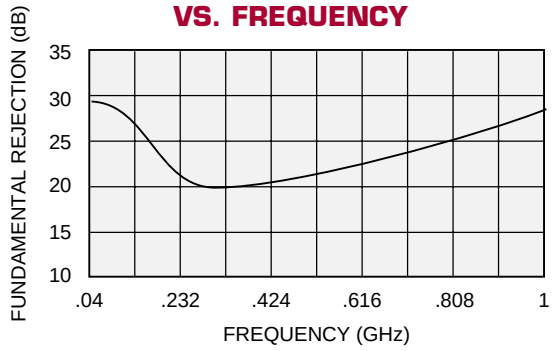
ELECTRICAL SPECIFICATIONS

Input frequency range	0.02 – 0.5 GHz minimum
Output frequency range	0.04 – 1 GHz minimum
Input power range	8 – 12 dBm nominal
Conversion loss	10.5 dB typical 13 dB maximum
Harmonic rejection Fundamental Odd harmonic	 25 dB typical 25 dB typical

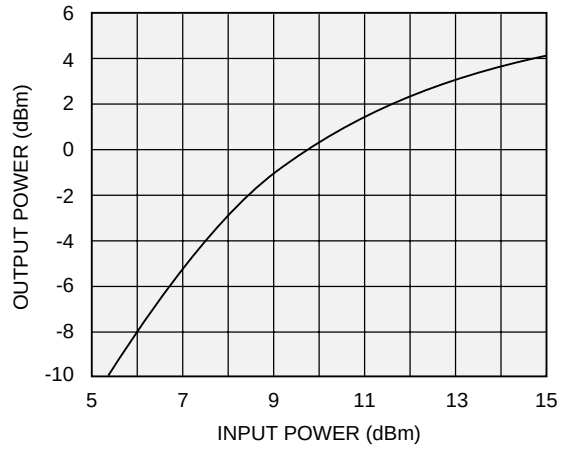
CONVERSION LOSS VS. FREQUENCY



FUNDAMENTAL REJECTION VS. FREQUENCY

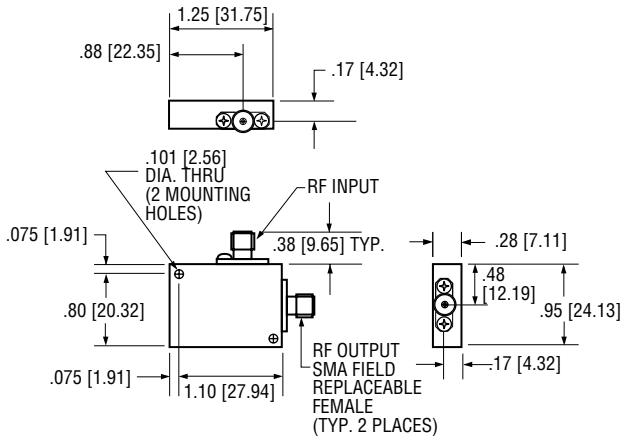


OUTPUT POWER VS. INPUT POWER



(P_{IN} = +10 dBm)

MX2A



Notes:

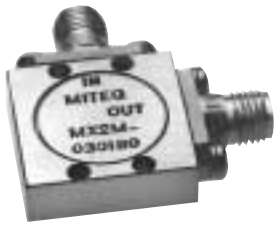
1. Dimensions are in inches [millimeters]
   Tolerance as follows:
   .xx = ±0.01 [.xx = ±0.25]
   .xxx = ±0.005 [.xxx = ±0.13]

2. Optional SMA, K or V type male connectors in either input, output or both.

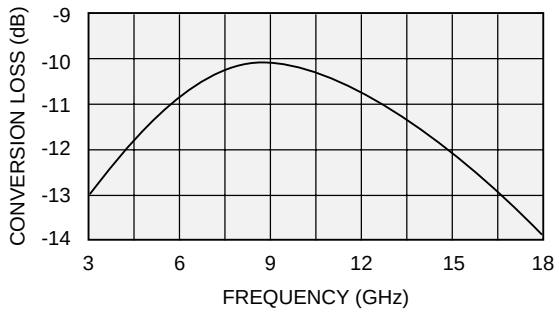
MODEL: MX2M030180

ELECTRICAL SPECIFICATIONS

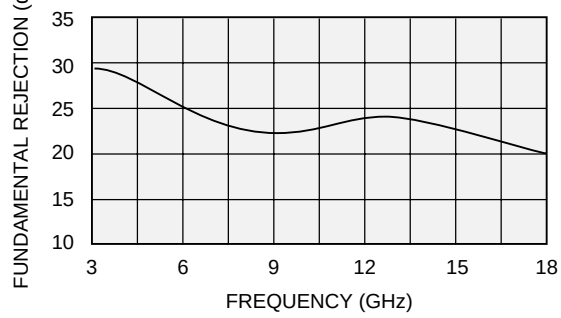
Input frequency range	1.5 – 9 GHz minimum
Output frequency range	3 – 18 GHz minimum
Input power range	8 – 12 dBm nominal
Conversion loss	12 dB typical 15 dB maximum
Harmonic rejection Fundamental Odd harmonic	 15 dB typical 20 dB typical



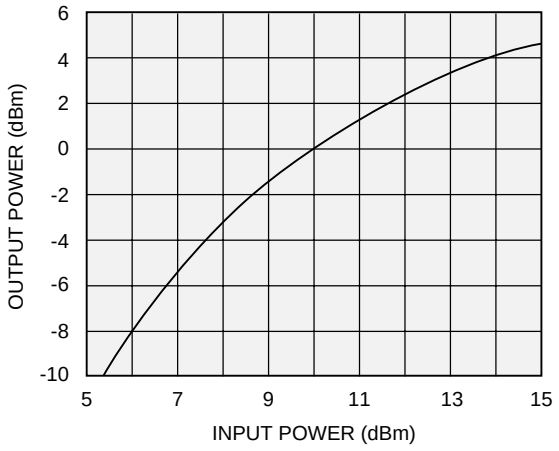
CONVERSION LOSS VS. FREQUENCY



FUNDAMENTAL REJECTION VS. FREQUENCY

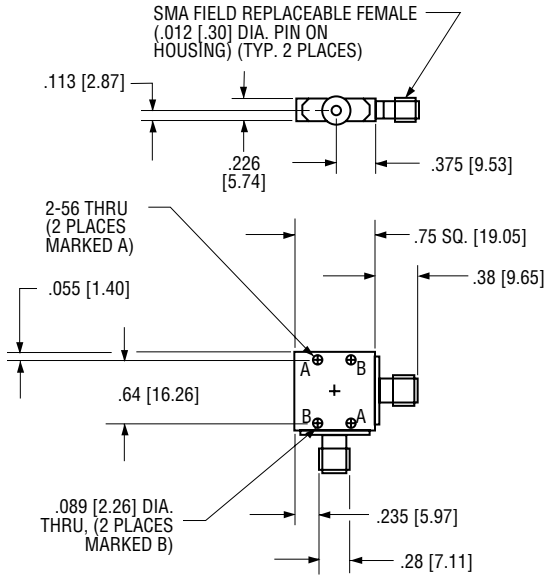


OUTPUT POWER VS. INPUT POWER



(P_{IN} = +10 dBm)

MX2B



Notes:

1. Dimensions are in inches [millimeters]
   Tolerance as follows:
   .xx = ±0.01 [.xx = ±0.25]
   .xxx = ±0.005 [.xxx = ±0.13]

2. Optional SMA, K or V type male connectors in either input, output or both.

3. Optional MX2C package available, see outline section.

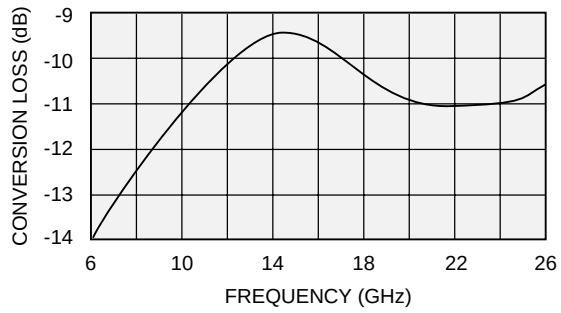
PASSIVE FREQUENCY DOUBLERS (CONT.)

MODEL: MX2M060260

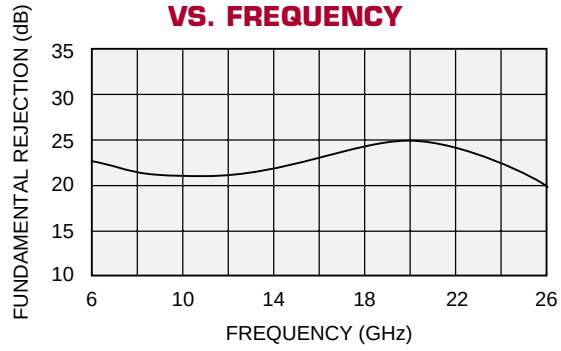
ELECTRICAL SPECIFICATIONS

Input frequency range	3 – 13 GHz minimum
Output frequency range	6 – 26 GHz minimum
Input power range	8 – 12 dBm nominal
Conversion loss	12 dB typical 15 dB maximum
Harmonic rejection Fundamental Odd harmonic	 15 dB typical 20 dB typical

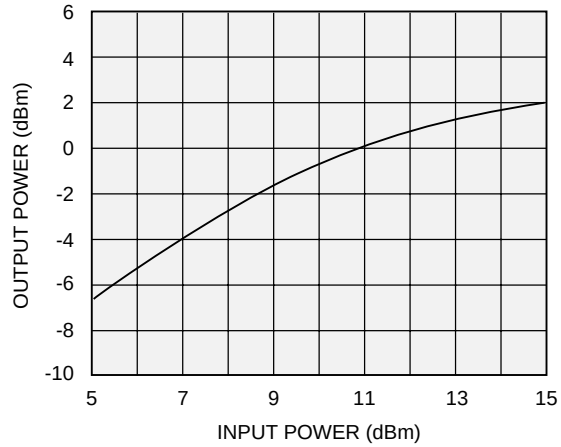
CONVERSION LOSS VS. FREQUENCY



FUNDAMENTAL REJECTION VS. FREQUENCY

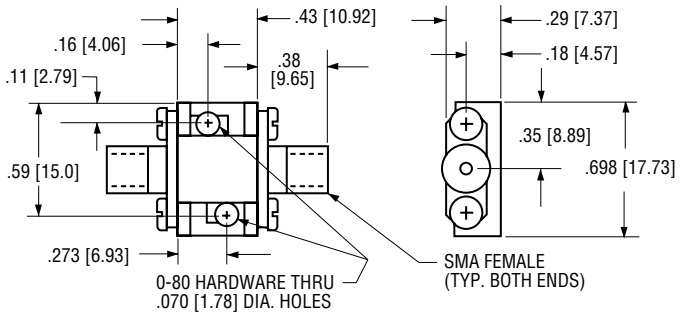


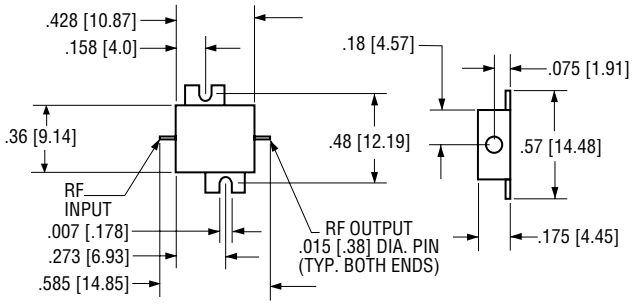
OUTPUT POWER VS. INPUT POWER



(P_{IN} = +10 dBm)

MX2D





Notes:

1. Dimensions are in inches [millimeters]
   Tolerance as follows:
   .xx = ±0.01 [.xx = ±0.25]
   .xxx = ±0.005 [.xxx = ±0.13]

2. Optional SMA, K or V type male connectors in either input, output or both.

3. Doubler may be readily used as is, or as a drop-in by removing the SMA connectors and mounting hardware as shown.