

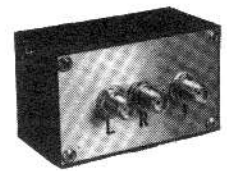
INTRODUCTION TO ZMA SERIES MICROWAVE BALANCED MIXERS

Standard Level
(+7 dBm LO)

ZMA Series

ZMA-2 1.0-2.5 GHz \$49.95 (1-9)
ZMA-3 1.4-3.0 GHz \$54.95 (1-9)

FAST DELIVERY
From stock, one week max.



FEATURES

BROADBAND 1.0-3.0 GHz
HIGH ISOLATION 30 dB
LOW CONVERSION LOSS 7dB
IF RESPONSE TO DC
SMA 3mm CONNECTORS
DELIVERY ONE WEEK
LOW PRICED \$49.95
(1-9 QUANTITY)

APPLICATIONS

FREQUENCY MIXING
PULSE AND AMPLITUDE MODULATION
PHASE DETECTION
CURRENT CONTROLLED ATTENUATION
FAST SWITCHING

DESCRIPTION

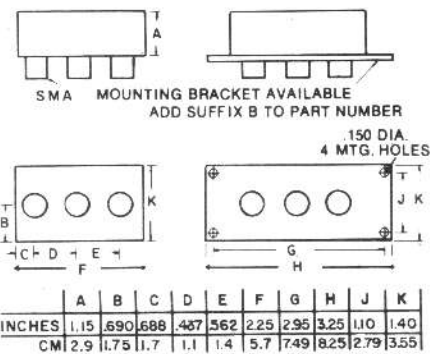
The ZMA series mixers are very economically priced while covering the broad frequency range from 1000MHz to 3000 MHz. They offer low conversion loss, 7 dB, and high LO-IF isolation 50 dB, over most of its frequency range.

Available with SMA (3 mm) connectors the ZMA series is housed in a die cast aluminum case. These rugged units are shielded to meet your tough RFI requirements. The case is finished with a blue baked enamel per Federal Standard 595 #25109 over phosphoric etch per MIL-C-15328A.

Every unit is 100% tested and inspected under strict MCL quality control standards to ensure superior electrical performance and reliability.

Ruggedness and durability are built into the ZMA series. Only well matched hot-carrier diodes and ruggedly constructed transmission line transformers are used. Internally, every component is bonded with silicone rubber to provide protection against shock, vibration, and acceleration.

The exceptional low cost of the ZMA series is attributable to the breakthrough in production techniques achieved during the manufacture of the widely acclaimed Mini-Circuits SRA series of PC board mounting mixers. Utilizing this technology the ZMA series is offered at a remarkable price of 1/2 to 1/3 the cost of competitive units. The ZMA series provides performance, quality, and low cost.



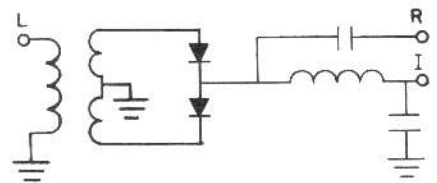
WEIGHT 74.0 grams 2.60 ounces

CONNECTORS

SMA (3mm) standard

MOUNTING BRACKET

On request, add \$1.50 to unit cost.
See dimensions above.



ABSOLUTE MAXIMUM RATINGS

Total Input Power 50mW
Total Input, Current Peak 40 mA
Operating & Storage Temperature -55° C to +100° C

MICROWAVE BALANCED MIXERS

Frequency Range, GHz	Model ZMA-2
	LO 1-2.5
	RF 1-2.5
	IF DC-0.3

Conversion Loss, dB	Typ.	Max.
1.4-2 GHz	7.0	8.5
1.0-2.5 GHz	8.0	9.0

Isolation, dB	Typ.	Min.
1.0-1.5 GHz	LO-RF 25	20
	LO-IF 50	35

1.5-2.0 GHz	Typ.	Min.
	LO-RF 22	17
	LO-IF 40	30

2.0-2.5 GHz	Typ.	Min.
	LO-RF 20	15
	LO-IF 35	25

Signal 1 dB compression +2 dBm typ.
 Total input power 50 mW
 Total input, current peak 40 mA
 Operating and Storage Temperature -55°C to +100°C

Frequency Range, GHz	Model ZMA-3
	LO 1.4-3.0
	RF 1.4-3.0
	IF DC-0.7

Conversion Loss, dB	Typ.	Max.
1.6-2.5 GHz	6.5	8.0
1.4-3.0 GHz	7.0	9.0

Isolation, dB	Typ.	Min.
1.4-2.0 GHz	LO-RF 25	20
	LO-IF 50	35

2.0-2.5 GHz	Typ.	Min.
	LO-RF 28	18
	LO-IF 50	30

2.5-3.0 GHz	Typ.	Min.
	LO-RF 23	15
	LO-IF 50	30

Signal 1 dB compression +3 dBm typ.
 Total input power 50 mW
 Total input, current peak 40 mA
 Operating and Storage Temperature -55°C to +100°C

Standard Level
 (+7 dBm LO)

ZMA Series

ZMA-2 1.0-2.5 GHz \$49.95 (1-9)

ZMA-3 1.4-3.0 GHz \$54.95 (1-9)

FAST DELIVERY
 From stock, one week max.

