RoHS Compliant

E-Series I/Q Modulator 935.2 – 959.8 MHz

High Carrier Suppression

High 3 I and 5 I Suppression

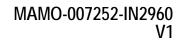
LO Power + 10 dBm Typical

260°C Reflow Compatible

Tape and reel packaging available

RoHS* compliant version of the EKIN2-960





SM - 28 Package

0.80 0.48 0.48 0.40 (12.19) MAX 0.22 0.10 (2.5,78) 0.10 (12.7) 0.16 (10.16) 0.20 TYP (5.08) (1.52) 0.06 TYP (1.52) 0.06 TYP

M/A-COM's MAMO-007252-IN2960 is a RoHS Compli-

Description

Surface Mount

Features

•

•

•

•

•

•

ant passive, high performance surface mount Modulator. It is ideally suited for Direct Modulation in GSM / E-GSM Cellular Base Stations.

The MAMO-007252-IN2960 is available in a SM-28 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

Ordering Information

Part Number	Package			
MAMO-007252-IN2960	Tape and Reel (300 piece Reel)			

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum		
Impedance	50 Ohms nominal		
Operating Temperature	-55°C to +85°C		
Storage Temperature	-65°C to +125°C		

1. Exceeding any one or combination of these limits may cause permanent damage to this device.

 M/A-COM does not recommend sustained operation near these survivability limits.

Pin Configuration

Pin No.	Function				
1	LO				
2	Case Ground				
3	Case Ground				
4	Case Ground				
5	I				
6	Q				
7	Case Ground				
8	RF				

This PRELIMINARY Data Sheet contains information regarding a product M/A-COM has under development. Performance is based on measured results and target specifications. Commitment to produce in volume is not guaranteed.

* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

1

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed. • North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

• India Tel: +91.80.4155721 • China Tel: +86.21.2407.1588

Visit www.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.



E-Series I/Q Modulator 935.2 – 959.8 MHz



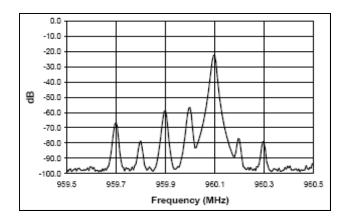
MAMO-007252-IN2960 V1

Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega$, LO = +10 dBm

Parameter	Test Conditions	Frequency	Units	Min	Тур	Мах
LO Frequency	_	935.2 - 959.8	MHz	—	—	—
I/Q Frequency	_	DC - 0.27	MHz	_	—	_
LO Carrier Suppression	lated to wanted sideband power.	935.2 - 959.8	dBc	—	27	—
SSB Rejection		935.2 - 959.8	dBc	_	34	_
Harmonic Suppression 3 x I/Q		935.2 - 959.8	dBc	—	40	—
Harmonic Suppression 5 x I/Q		935.2 - 959.8	dBc	—	55	—
Conversion Loss	_	935.2 - 959.8	dB	—	—	10
(LO) Carrier Power	_	935.2 - 959.8	dBm	_	+10 ± 1	_
I/Q Drive Level	_	935.2 - 959.8	dBm	—	-10	

Typical Performance Curves

Conversion Loss



ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

- North America Tel: 800.366.2266
 Europe Tel: +353.21.244.6400
 India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
- Visit www.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.