

E-Series I/Q Modulator 935.2 - 959.8 MHz



MAMO-007252-IN2960

Features

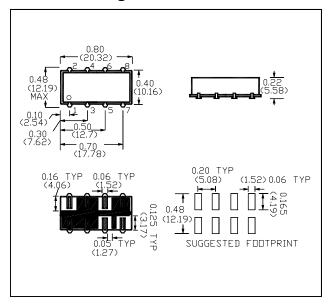
- **High Carrier Suppression**
- High 3 I and 5 I Suppression
- LO Power + 10 dBm Typical
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant version of the EKIN2-960

Description

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

SM - 28 Package



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.
- 2. 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	1				
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.

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

• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

• India Tel: +91.80.4155721 Visit www.macomtech.com for additional data sheets and product information.

• China Tel: +86.21.2407.1588

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





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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega$, LO = +10 dBm

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
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

