

# E-Series I/Q Modulator 935.2 – 959.8 MHz

**EKIN2-960** 

**V**4

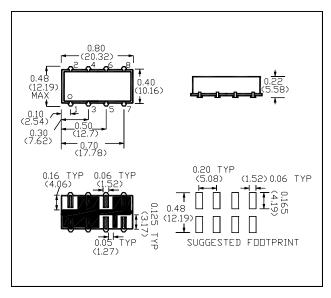
#### **Features**

- High Carrier Suppression
- High 3 I and 5 I Suppression
- LO Power + 10 dBm Typical
- Surface Mount
- · Tape and reel packaging available

#### **Description**

M/A-COM's EKIN2-960 is a passive, high performance surface mount Modulator. It is ideally suited for Direct Modulation in GSM / E-GSM Cellular Base Stations. Parts are packaged in tape & reel.

#### SM - 28 Package



### 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	When Q = +90 degrees relative to I; Lower sideband is suppressed. Related 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	_

#### **Ordering Information**

Part Number	Package	
EKIN2-960TR	Tape and Reel (300 piece Reel)	



# E-Series I/Q Modulator 935.2 - 959.8 MHz

EKIN2-960

**V**4

# **Absolute Maximum Ratings** <sup>1</sup>

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	I	
6	Q	
7	Case Ground	
8	RF	

# **Typical Performance**

#### **Conversion Loss**

