



Eyal Microwave Ltd.

Phone: 972-9-7499100 Fax: 972-9-7493669

Kibbutz Eyal D.N. Hasharon Hatichon 45840 Israel

Web: www.eyal-emi.com Email: emi@eyal-emi.com



**SPCIFICATION FOR**  
**ACTIVE MULTIPLIER X81**  
**MODEL: AMU-2384-00**

Electrical specification:

*INPUT FREQUENCY RANGE:		<b>103.5÷110.0</b>	MHz
* INPUT POWER RANGE:		<b>+5 to +9</b>	dBm
* OUTPUT FREQUENCY RANG:		<b>8.38÷8.88</b>	GHz
* OUTPUT POWER (at selected output):		<b>8</b>	±2 dBm
* HRMONICS:		<b>-25</b>	dBc min
* SUBHARMONICS & SPURIOUS:		<b>-60</b>	dBc min.
* PHASE NOISE FLOOR @ OUTPUT:		<b>-125</b>	dBc/HZ
* ADDITIONAL NOISE DUE TO MULTIPLICATION:		<b>41</b>	dB MAX
* ISOLATION BETWEEN OUTPUTS:		<b>40</b>	dB min.
* VIDEO LEAKAGE: ( for PRI of 180 uSec & P.W of 330 nSec Rise & Fall Time of 20 nSec ) measured with spectrum analyzer		<b>-60</b>	dBc
TTL CONTROL LOGIC:			
1 TTL LINE:		<b>"0"</b>	Out 1
		<b>"1"</b>	Out 2
* SWITCHING SPEED:			
1. 50% TTL to 90% OF RF VOLTAGE :		<b>30</b>	nSec max.
* ADDITIONAL SPURIOS DUE TO INTERFERENCE ON THE D.C LINE when 1 KHz pulses of 100mV amplitude will be applied to +15V pin		<b>-60</b>	dBc
* POWER SUPPLY:			
	<b>350</b> mA at	<b>+15V</b>	VOLT
	<b>20</b> mA at	<b>-15V</b>	VOLT
* TEMPERATURE RANGE:			
STORAGE . . . . .	<b>-54</b> DEG. C TO	<b>+125</b>	DEG. C
OPERATING . . . . .	<b>-40</b> DEG. C TO	<b>+90</b>	DEG. C

Environmental Conditions

- Humidity : per MIL-STD-202F , Method 103B , Cond. B , 964
- Shock: per MIL-STD-202F , Method 213B , Cond. C , 0.5 Sin 100g
- Altitude: per MIL-STD-202F , Method 105B , Cond. C
- Vibration: per MIL-STD-202F , Method 204B , Cond. D , 20g
- Thermal Shock: per MIL-STD-202F , Method 107B , Cond. A