



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



Eyal Microwave Specification

For

Active Frequency Multiplier, x4

MODEL: AMU-2505-00

General

This specification covers the requirements for a multiplier which is part of an airborne system to meet or exceeds the requirements of: MIL-E-5400.

Figure1 – General Block Diagram for the Multiplier X4

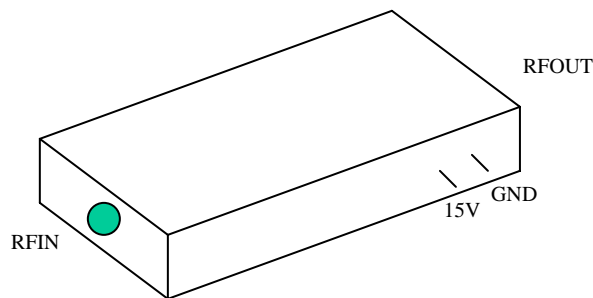
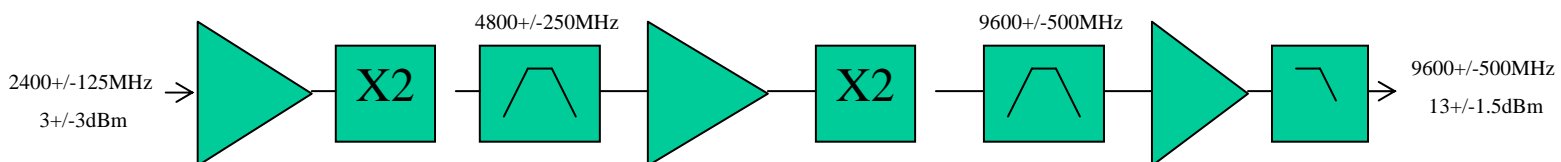


Figure2 – Initial Outline Drawing for the Multiplier X4



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



Electrical Specification:

Input frequency	2400 MHz \pm 125 MHz
Input power	3 dBm \pm 3 dB.
Input harmonics rejection	15 dBc Min
Input VSWR	1.4:1 Max.
Output frequency	9600 MHz \pm 500 MHz
Output power	13dBm \pm 1.5 dB.
Output VSWR	1.6: 1 Max.
Harmonics of input frequency rejection	40 dBc Min.
Spurious rejection	70 dBc Min. over output pass band
Added phase noise	15 dB Max. from input
Phase linearity	+/- 3.5 deg. Over output pass band
DC supply	15 V +/- 5 %

- **Mechanical**
Hermetically Sealed Package.
SMA female removable connectors for drop in purpose. (For RF in & RF out)

- **Finish:**
Gold plated



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



Environmental

Operating temperature range:	- 54° C to +95° C
Storage temperature:	- 55° C to +125° C
Altitude (reduced pressure):	70,000 feet
Vibration survival:	MIL-STD-202, Method 214, test condition G.
Temperature cycling:	MIL-STD-883E, Method 1010
Shock:	MIL-STD-202, Method 213, test condition G.
Seal:	MIL-STD-202, Method 112, test condition E,
Moisture Resistance:	MIL-STD-202. Method 106.
Salt/Fog :	MIL-STD-202. Method 101. test condition B.
Humidity	MIL-STD-202 Method 103, test condition D,

Applicable Standards:

- MIL-PRF-38434D, Class K - see for passive elements
- MIL-STD-2000, & 454 - Requirements for workmanship, soldering.
- IPC-SM-786, IEC384 - Requirements for Storage & Handling
- MIL-STD-202 - for environmental specifications, Shock, Vibration,
- Humidity



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



Outline Drawing

