



### VDI Integrated Amplifier / Multiplier Chain Specifications

Product Name	WR15AMC-I	WR12AMC-I	WR10AMC-I	WR9.0AMC-I	WR8.0AMC-I	WR6.5AMC-I	WR5.1AMC-I	WR4.5AMC-I
RF Frequency Band (GHz)	50-75	60-90	75-110	82-125	90-140	110-170	140-220	165-250
Output Flange (UG-387/U-M)	WR-15	WR-12	WR-10	WR-9.0	WR-8.0	WR-6.5	WR-5.1	WR-4.3
Output Power (Typical / Minimum)	20 / 17 dBm	19 / 13 dBm	18 / 15 dBm	10 / 6 dBm	10 / 5 dBm			
Standard Multiplication Factor	6	6	6	9	12	12	12	18
RF Input (GHz, Standard Multiplication Factor)	8.33-12.5	10-15	12.5-18.33	9.11-13.89	7.5-11.67	9.17-14.17	11.67-18.33	9.17-13.89
Alternative Multiplication Factor	3	3	3	3	6	6	6	6
RF Input (GHz, Alt Multiplication Factor)	16.67-25	20-30	25-36.67	27.33-41.67	15-23.33	18.33-28.33	23.33-36.67	27.5-41.67

  

Product Name	WR4.3AMC-I	WR3.4AMC-I	WR3.0AMC-I	WR2.8AMC-I	WR2.2AMC-I	WR2.0AMC-I	WR1.5AMC-I	WR1.0AMC-I
RF Frequency Band (GHz)	170-260	220-330	250-375	260-400	330-500	400-550	500-750	750-1100
Output Flange (UG-387/U-M)	WR-4.3	WR-3.4	WR-2.8	WR-2.8	WR-2.2	WR-1.9	WR-1.5	WR-1.0
Output Power (Typical / Minimum)	8 / 3 dBm	6 / 3 dBm	5 / 0 dBm	5 / -1 dBm	0 / -6 dBm	1 / -5 dBm	-7 / -13 dBm	-16 / -26 dBm
Standard Multiplication Factor	18	18	27	27	36	36	54	81
RF Input (GHz, Standard Multiplication Factor)	9.44-14.44	12.22-18.33	9.26-13.89	9.63-14.81	9.17-13.89	11.11-15.28	9.26-13.89	9.26-13.58
Alternative Multiplication Factor	6	9	9	9	18	18	18	27
RF Input (GHz, Alt Multiplication Factor)	28.33-43.33	24.44-36.67	27.78-41.67	28.89-44.44	18.33-27.78	22.22-30.56	27.78-41.67	27.78-40.74

**General Notes:**

- AMC-I products require a user supplied voltage. +9V expected for AMC-I module. +5V expected for attached fan.
- AMC-I products are shipped with a heat sink and fan, but may be removed. If heat sink and fan are removed, user must provide sufficient heat sinking. Maximum case temperature should not exceed 45 C.
- To reduce noise contributions from provided fan, VDI recommends operating the fan on a separate and isolated power supply.
- All input connectors are 2.9mm(f) compatible.
- AMC-I are configured to allow 0dBm +/-3dB RF input power. This applies to both Standard and Alternative Multiplication Factor configurations.
- No test port is included with the module. Contact VDI for pricing on test ports (1" and 2" test ports are available).
- Includes TTL modulation (on/off up to ~kHz) and User Controlled Attenuation (UCA), 0-5V

**How to Order:**

**PRODUCT or PRODUCT-MX**

PRODUCT = Choose from "Product Name" in above table.

MX = X is the Alternative Multiplication Factor. If MX is not included, VDI to configure unit with Standard Multiplication Factor

*Examples*

WR3.4AMC-I: 220-330 GHz Integrated Amplifier / Multiplier Chain with N=18 Multiplication Factor

WR3.4AMC-I-M9: 220-330 GHz Integrated Amplifier / Multiplier Chain with N=9 Multiplication Factor