

Applications:

- Instrumentations
- Test Bench
- Frequency Extension

Features:

- State-of-the art Solid State
- +13 dBm LO Drive Power
- Full Waveguide Bandwidth Coverage
- Low Level Harmonics and spurious
- Covering 10 Waveguide Bands at 18-170 GHz



Descriptions:

3J Microwave, Inc. offers a complete line of DC Bias passive multipliers in frequency range of 18 to 170 GHz. The available state-of-the-art solid-state technologies, devices, DC Bias & harmonics suppression & filtering techniques are utilized in the passive multipliers to meet various requirements. Waveguide outputs are designed to cover eight waveguide bands from K to D-Band in the frequency range of 18 to 170 GHz. Coax RF connectors

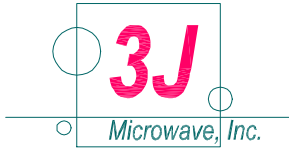
are available in the frequency range below 67 GHz on demand. The DC Bias passive multipliers are designed for the various applications such as bench test, instrumentations and frequency extenders etc. The DC Bias passive multipliers are sorted in category of **BPFM** series DC bias passive multipliers.

Please consult the factory for x2 passive multipliers in the frequency of higher than 110 GHz.

BPFM Series DC Bias Passive Multiplier Specifications:

Model No.*	Type	Fin (GHz)	Fout (GHz)	Pin (dBm)	Pout (dBm)	Harmonics (dBc)	RF Input Connector	DC Bias (V/mA)	RF Output Connector	Outline
PFM-xxxx-00	Kx2	9-13.5	18-27	+13	+8	-20	SMA	+5V/10mA	UG595-U	L01-01
	Jx2	11-16.5	22-33		+8		SMA		UG595-UM	L02-01
	Ax2	13-20	26-40		+7		SMA		UG599-U	L03-01
	Qx2	16.5-25	33-50		+6		2.92 mm or WR-42		UG383-U	L04-01
	Ux2	20-30	40-60		+5		2.92 mm or WR-34		UG383-UM	
	Vx2	25-37.5	50-75		+4		2.92 mm or WR-28		UG385-U	
	Ex2	30-45	60-90		+3		2.4 mm or WR-22		UG387-U	
	Wx2	37.7-55	75-110		+2		2.4 mm or WR-19		UG387-UM	

* Please see "how to order" for the model number details



Section 3-4: DC Bias Passive Multiplier Series

www.3jmicrowave.com Frequency Coverage: 18 to 170 GHz

How to Order:

BPFM-x x xx -00

Waveguide Designation ↑ ↑ ↑ ↑ Factory Reserved

WG-BAND	K	WR34	Ka	Q	U	V	E	W
Designation	K	J	R	Q	U	V	E	W

Multiplication Time ↑

Input Connector Coax:

Connector Type	SMA		2.92		2.4	
	Male	Female	Male	Female	Male	Female
Designation	SM	SF	KM	KF	2M	2F

Waveguides:

WG-BAND	K	WR34	Ka	Q	U
Designation	42	34	28	22	19

BPFM Model Number Example:

Model Number of a V-Band Times 2 DC Bias Passive Multiplier:

Specifications	Model number
Input RF Frequency: 25 to 37.5 GHz Input Power: +13 dBm Output RF Frequency: 50 to 75 GHz Output Power: +3 dBm Harmonics: -20 dBc Input Connector: 2.92 mm Female Output Connector: WR-12	BPFM-V2KF-00

Outline: L01-01, L02-01, L03-01 and L04-01