

Active Frequency Tripler, Model AK-3X

Description:

Spacek Labs' Model AK-3X is a MMIC-based, active frequency multiplier which has an input frequency range from 6 to 8.8 GHz. The input frequencies are tripled (X3) generating an output frequency range from 18 to 26.5 GHz with an output power of 17 dBm minimum.

Bias specs are 140 mA @ +8 to +12 VDC.

A removeable heatsink is provided.

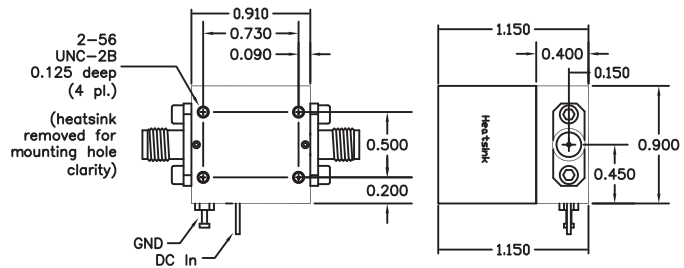
Features:

- Balanced Circuitry
- Unconditionally Stable
- Internal Voltage Regulator
- Heat Sink Included, Removable for Integration.



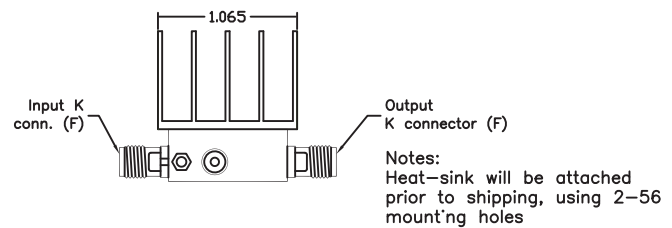
Electrical Specifications:

Description	Min.	Typ.	Max.
Input Frequency Range	6 GHz	-	8.8 GHz
Input Power Level	-	12 dBm	-
Output Frequency Range	18 GHz	-	26.5 GHz
Output Power Level	17 dBm	19 dBm	-
Spurious	-	-25 dBc	-14 dBc
Bias Current / Voltage	140 mA / +8 to +12 VDC		



Mechanical Specifications:

Description	Specification
Connectors I/O	K(f) / K(f)
Dimensions OA	See outline
Material	Aluminum
Finish	Nickel
Weight	1.5 oz



OUTLINE (NOT TO SCALE)

ACTIVE FREQUENCY MULTIPLIER