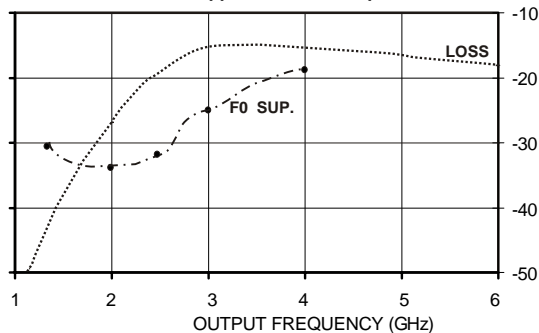


### Product Description

DKD Instrument's modular broadband RF frequency doubler's are designed to be a low cost, high performance solutions to new designs or production replacements. The DBL-04 produces RF output frequencies 2.5 to 6GHz when driven @+20dBm. Typical fundamental suppression is 25dB.

All modular series components are prepackaged in a RF sealed enclosure with SMA connectors for both input and output.

Conversion Loss & F0 Suppression vs. Freq. @ +15dBm Drive Level



### Features

- **Broadband 2.5 to 6Ghz Output**
- **DC Isolated**
- **Small Enclosure**
- **SMA (F) RF Connectors**



### Typical Electrical Specifications, $T_A = +25\text{ C}$

Parameter	DRIVE LEVEL			Units
	+10dbm	+15dBm	+20dBm	
Input Frequency Range	1.75-2.75	1.5-2.5	1.25-3.0	GHz
Output Frequency Range	3.5-5.5	3.0-5.0	2.5-6.0	GHz
Conversion Loss	20	15	18	dB/Tc
Input Return Loss @ 2GHz Input	5	8	15	dB
Output Return Loss @ 4Ghz Output	7	11	13	dB
Fundamental Suppression (F0) @ Output		25		dB
3F0 Suppression @ Output		35		dB
4F0 Suppression @ Output		30		dB