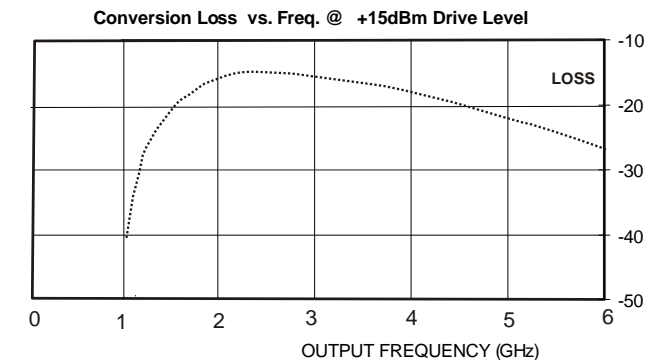


Product Description

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-03 produces RF output frequencies 1.7 to 4.0 GHz 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. .



Features

- **Broadband 0.85 to 4Ghz Output**
- **Conversion loss 15dB Typical**
- **Small Enclosure**
- **SMA (F) RF Connectors**



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

Parameter	DRIVE LEVEL			Units
	+10dbm	+15dBm	+20dBm	
Input Frequency Range	1.25-1.75	1.0 - 1.75	0.85 - 2.0	GHz
Output Frequency Range	2.5 - 3.5	2.0 - 3.5	1.7 - 4.0	GHz
Conversion Loss	<20	<15	<16	dB
Input Return Loss @ 1.5GHz Input	4	6	8	dB
Output Return Loss @ 3Ghz Output	8	11	10	dB
Fundamental Suppression (F0) @ Output		20		dB
3F0 Suppression @ Output		30		dB
4F0 Suppression @ Output		30		dB