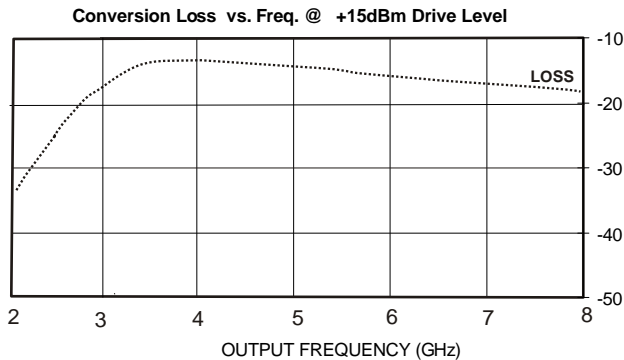


Product Description

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-05 produces RF output frequencies 2.6 to 8GHz 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 2.6 to 8Ghz 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	1.70-3.5	1.70-4.0	1.3-4.0	GHz
Output Frequency Range	3.4-7.0	3.4-8.0	2.6-8.0	GHz
Conversion Loss	<20	<15	<15	dB
Input Return Loss @ 3GHz Input	5	8	9	dB
Output Return Loss @ 6Ghz Output	15	17	15	dB
Fundamental Suppression (F0) @ Output		20		dB
3F0 Suppression @ Output		30		dB
4F0 Suppression @ Output		30		dB