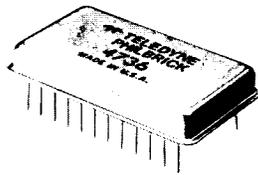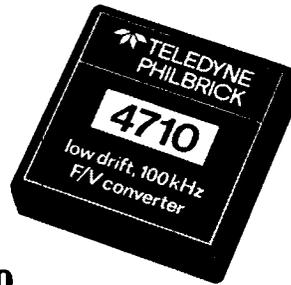# Frequency to Voltage Converters

4736

1MHz Hybrid F/V Converter
± 0.008%FS Nonlinearity

4710

100kHz Modular F/V Converter
± 15ppm of FS/°C Full Scale Drift

General Purpose Frequency to Voltage Converter Selection Guide

Fre-quency Range	Part Number	Absolute Accuracy			Temperature Stability		Specified Temperature Range (°C)	Pkg.	Page No.
		Nonlinearity (%FS, Max)	Zero Offset (%FS, Max)	Full Scale (%FS, Max)	Zero Offset (μV/°C, Max)	Full Scale (Max) (ppm of FS/°C)			
10kHz	4714	± 0.09	± 0.1	± 1	± 100	± 150	– 40 to + 70	B	8-3
	4722	± 0.03 plus ± 0.03 (1)	± 0.1	± 1	± 50	± 300	0 to + 70	A	8-11
	4702	± 0.03	± 0.1	± 1	± 50	± 100	– 40 to + 70	B	8-3
100kHz	4704	± 0.05	± 0.1	± 1	± 50	± 150	– 40 to + 85	B	8-3
	4780 (2)	± 0.05	± 0.5	± 10 Typ	± 50	± 40	0 to + 70	D	8-31
	4781 (2)	± 0.02	± 0.5	± 10 Typ	± 50	± 40	0 to + 70	D	8-31
1MHz	4706	± 0.008 plus ± 0.02 (1)	± 0.1	± 0.5	± 100	± 150	0 to + 70	C	8-5

Notes: 1. Nonlinearity specification includes ± %FS plus ± % signal.

2. 4780 and 4781 perform both voltage to frequency and frequency to voltage conversion in same package.

Packages: A. Module, 1.14″ × 1.14″ × 0.4″
B. Module, 1.5″ × 1.5″ × 0.4″
C. Module, 2.0″ × 2.0″ × 0.4″
D. 14 pin plastic dual-in-line, 0.79″ × 0.33″ × 0.2″

Precision Frequency to Voltage Converter Selection Guide

Fre-quency Range	Part Number	Absolute Accuracy			Temperature Stability		Specified Temperature Range (°C)	Pkg.	Page No.
		Nonlinearity (%FS, Max)	Zero Offset (%FS, Max)	Full Scale (%FS, Max)	Zero Offset (μV/°C, Max)	Full Scale (Max) (ppm of FS/°C)			
10kHz	4708	± 0.007 plus ± 0.013 (1)	± 0.05	± 0.5	± 50	± 50	0 to + 70	A	8-5
	4732	± 0.005	± 0.05	± 0.5	± 25	± 25	– 25 to + 85	B	8-17
	4732-83 (2)	± 0.005	± 0.05	± 0.5	± 50	± 50	– 55 to + 125	B	8-17
100kHz	4710	± 0.007 plus ± 0.013 (1)	± 0.05	± 0.5	± 50	± 50	0 to + 70	A	8-5
	4710-02	± 0.005 plus ± 0.01 (1)	± 0.05	± 0.5	± 50	± 15	0 to + 70	A	8-5
	4734	± 0.005	± 0.05	± 0.5	± 25	± 25	– 25 to + 85	B	8-17
	4734-83 (2)	± 0.005	± 0.05	± 0.5	± 50	± 50	– 55 to + 125	B	8-17
1MHz	4736	± 0.008	± 0.05	± 0.1	± 50	± 50	0 to + 70	B	8-25
	4736-83 (2)	± 0.008	± 0.05	± 0.1	± 80	± 100	– 55 to + 125	B	8-25

Notes: 1. Nonlinearity specification includes ± %FS plus ± % signal.

2. Screened to the high reliability requirements of MIL-STD-883, Method 5008.

Packages: A. Module, 1.5″ × 1.5″ × 0.4″
B. 24 pin metal dual-in-line, 1.39″ × 0.8″ × 0.2″

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