

MAGNETIC REFERENCE LABORATORY, INC.

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Two-Frequency Calibration Tapes: 1 kHz and 10 kHz, ½ each

These "minimalist" two-frequency Calibration Tapes contain a 1 kHz signal for setting level, and 10 kHz signal for setting azimuth and high-frequency equalization. (See other side for three-frequency tapes with 1 kHz, 10 kHz, and 100 Hz.) They are shown in the table below for ¼-, ½-, 1-, and 2-inch widths; and 3.75-, 7.5-, 15-, and 30-in/s tape speeds.

Catalog numbers are shown for reference fluxivities of both 250 nWb/m ("+3 dB") and 355 nWb/m ("+6 dB"). Both tones are recorded at 0 dB on all tapes except at 3.75

in/s both tones are recorded at -10 dB to avoid saturating the tape at high frequencies.

Catalog numbers and prices are given for both 4-minute and 8-minute total durations.

See "Choosing and Using MRL Calibration Tapes for Audio Tape Recorder Standardization", MRL Publication Choo&U, for more information on choosing and converting between different equalizations and levels, as well as descriptions of other test signals that are available from MRL, and notes on using Calibration Tapes.

Table of Two-Frequency Calibration Tapes with 1 kHz and 10 kHz, ½ each

Medium	Tape Speed	Equalization Standard	Level of Recorded Signals*	4 minutes Total		8 minutes Total	
				Catalog Number for Reference Fluxivity of:		Catalog Number for Reference Fluxivity of:	
				250 nWb/m ("+3 dB")	355 nWb/m ("+6 dB")	250 nWb/m ("+3 dB")	355 nWb/m ("+6 dB")
¼ in	3.75 in/s	IEC & NAB	-10 dB	221-611-380-101	221-611-410-107	221-611-380-127	221-611-410-123
	7.5 in/s	IEC (IEC1)	0 dB	231-611-480-101	231-611-510-107	231-611-480-127	231-611-510-123
		NAB (IEC2)	0 dB	233-611-480-107	233-611-510-103	233-611-480-123	233-611-510-129
	15 in/s	IEC (IEC1)	0 dB	241-611-480-108	241-611-510-104	241-611-480-124	241-611-510-120
		NAB (IEC2)	0 dB	243-611-480-104	243-611-510-100	243-611-480-120	243-611-510-126
30 in/s	AES (IEC2)	0 dB	251-611-480-105	251-611-510-101	251-611-480-121	251-611-510-127	
½ in	3.75 in/s	IEC & NAB	-10 dB	321-611-380-100	321-611-410-106	321-611-380-126	321-611-410-122
	7.5 in/s	IEC (IEC1)	0 dB	331-611-480-100	331-611-510-106	331-611-480-126	331-611-510-122
		NAB (IEC2)	0 dB	333-611-480-106	333-611-510-102	333-611-480-122	333-611-510-128
	15 in/s	IEC (IEC1)	0 dB	341-611-480-107	341-611-510-103	341-611-480-123	341-611-510-129
		NAB (IEC2)	0 dB	343-611-480-103	343-611-510-109	343-611-480-129	343-611-510-125
30 in/s	AES (IEC2)	0 dB	351-611-480-104	351-611-510-100	351-611-480-120	351-611-510-126	
1 in	3.75 in/s	IEC & NAB	-10 dB	421-611-380-109	421-611-410-105	421-611-380-125	421-611-410-121
	7.5 in/s	IEC (IEC1)	0 dB	431-611-480-109	431-611-510-105	431-611-480-125	431-611-510-121
		NAB (IEC2)	0 dB	433-611-480-105	433-611-510-101	433-611-480-121	433-611-510-127
	15 in/s	IEC (IEC1)	0 dB	441-611-480-106	441-611-510-102	441-611-480-122	441-611-510-128
		NAB (IEC2)	0 dB	443-611-480-102	443-611-510-108	443-611-480-128	443-611-510-124
30 in/s	AES (IEC2)	0 dB	451-611-480-103	451-611-510-109	451-611-480-129	451-611-510-125	
2 in	7.5 in/s	IEC (IEC1)	0 dB	531-611-480-108	531-611-510-104	531-611-480-124	531-611-510-120
		NAB (IEC2)	0 dB	533-611-480-104	533-611-510-100	533-611-480-120	533-611-510-126
	15 in/s	IEC (IEC1)	0 dB	541-611-480-105	541-611-510-101	541-611-480-121	541-611-510-127
		NAB (IEC2)	0 dB	543-611-480-101	543-611-510-107	543-611-480-127	543-611-510-123
	30 in/s	AES (IEC2)	0 dB	551-611-480-102	551-611-510-108	551-611-480-128	551-611-510-124

* Because of tape saturation at the higher frequencies at lower speeds, some tapes are recorded at -10 dB.