

MAGNETIC REFERENCE LABORATORY, INC.

165 Wyandotte Dr ♦ San Jose, CA 95123 ♦ Phone&FAX +1.408.227.8631 ♦ www.mrltapes.com

Publication 644
2008-04-01

Three-Frequency Calibration Tapes: 1 kHz, 10 kHz, and 100 Hz, a each

These "minimalist" three-frequency Calibration Tapes contain a 1 kHz signal for setting level, a 10 kHz signal for setting azimuth and high-frequency equalization, and a 100 Hz signal for checking the low-frequency equalization. (See other side for two-frequency tapes with 1 kHz and 10 kHz.) 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"). All tones are recorded at 0 dB on all tapes except at 3.75 in/s all tones are recorded at -10 dB to avoid saturating the tape at high frequencies. All of these recordings are fringing compensated. For

2-track ½ inch, or 2- or 4-track 1inch use, inquire for the catalog numbers of non-fringing compensated tapes.

Catalog numbers and prices are given for total durations of 4 minutes (72 s per tone) and for 8 minutes (152 s per tone).

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 Three-Frequency Calibration Tapes with 1 kHz, 10 kHz, and 100 Hz, a each

Medium	Tape Speed	Equalization Standard	Level of Recorded Signals*	4 minutes total (72 s per tone)			8 minutes total (152 s per tone)		
				Catalog Number for Reference Fluxivity of:		Price	Catalog Number for Reference Fluxivity of:		Price
				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	221-644-382-107	221-644-412-103	100 \$	221-644-382-123	221-644-412-129	140 \$
	7.5 in/s	IEC (IEC1)	0 dB	231-644-482-107	231-644-512-103		231-644-482-123	231-644-512-129	
		NAB (IEC2)	0 dB	233-644-482-103	233-644-512-109		233-644-482-129	233-644-512-125	
	15 in/s	IEC (IEC1)	0 dB	241-644-482-104	241-644-512-100		241-644-482-120	241-644-512-126	
NAB (IEC2)		0 dB	243-644-482-100	243-644-512-106	243-644-482-126	243-644-512-122			
	30 in/s	AES (IEC2)	0 dB	251-644-482-101	251-644-512-107	105 \$	251-644-482-127	251-644-512-123	155 \$
½ in	3.75 in/s	IEC & NAB	-10 dB	321-644-382-106	321-644-412-102	145 \$	321-644-382-122	321-644-412-128	225 \$
	7.5 in/s	IEC (IEC1)	0 dB	331-644-482-106	331-644-512-102		331-644-482-122	331-644-512-128	
		NAB (IEC2)	0 dB	333-644-482-102	333-644-512-108		333-644-482-128	333-644-512-124	
	15 in/s	IEC (IEC1)	0 dB	341-644-482-103	341-644-512-109		341-644-482-129	341-644-512-125	
NAB (IEC2)		0 dB	343-644-482-109	343-644-512-105	343-644-482-125	343-644-512-121			
	30 in/s	AES (IEC2)	0 dB	351-644-482-100	351-644-512-106	170 \$	351-644-482-126	351-644-512-122	250 \$
1 in	3.75 in/s	IEC & NAB	-10 dB	421-644-382-105	421-644-412-101	265 \$	421-644-382-121	421-644-412-127	415 \$
	7.5 in/s	IEC (IEC1)	0 dB	431-644-482-105	431-644-512-101		431-644-482-121	431-644-512-127	
		NAB (IEC2)	0 dB	433-644-482-101	433-644-512-107		433-644-482-127	433-644-512-123	
	15 in/s	IEC (IEC1)	0 dB	441-644-482-102	441-644-512-108		441-644-482-128	441-644-512-124	
NAB (IEC2)		0 dB	443-644-482-108	443-644-512-104	443-644-482-124	443-644-512-120			
	30 in/s	AES (IEC2)	0 dB	451-644-482-109	451-644-512-105	305 \$	451-644-482-125	451-644-512-121	475 \$
2 in	7.5 in/s	IEC (IEC1)	0 dB	531-644-482-104	531-644-512-100	375 \$	531-644-482-120	531-644-512-126	570 \$
		NAB (IEC2)	0 dB	533-644-482-100	533-644-512-106		533-644-482-126	533-644-512-122	
	15 in/s	IEC (IEC1)	0 dB	541-644-482-101	541-644-512-107		541-644-482-127	541-644-512-123	
		NAB (IEC2)	0 dB	543-644-482-107	543-644-512-103		543-644-482-123	543-644-512-129	
	30 in/s	AES (IEC2)	0 dB	551-644-482-108	551-644-512-104	420 \$	551-644-482-124	551-644-512-120	645 \$

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

Prices are in US \$, and do not include shipping or applicable taxes.

Prices may be changed without notice.