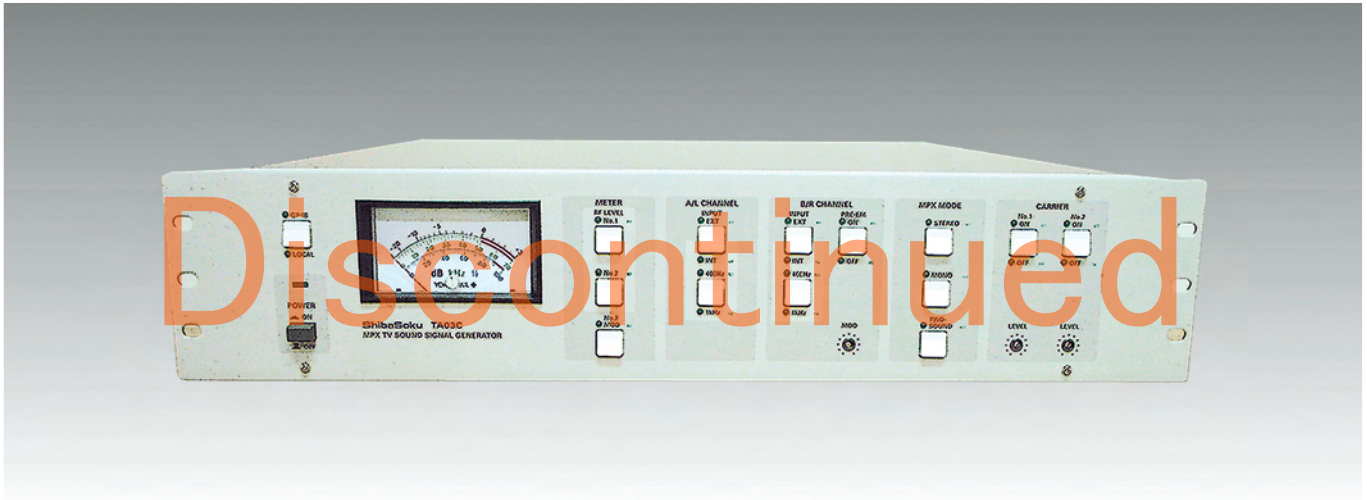


TA03C Series

TELEVISION INSTRUMENTS

MPX TV SOUND SIGNAL GENERATOR



General

The TA03C series is a TV sound multiplex signal generator based on the 2-carrier system. Using this unit together with the RM54B vision sound IF modulator or the RT83B multi-channel signal generator, etc., TV channel signals of a 2-carrier sound MPX system can be generated. Available for German, Korean, and television system-D/K.

Specifications

- General specifications
 - Power supply AC 100, 120, 220, 240 V \pm 10%, 50/60 Hz
 - Power consumption Approx. 55 VA
 - Operation temperature range 5°C to 40°C
 - Dimensions 430 (W) x 99 (H) x 450 (D) mm
 - Weight Approx. 9.5 kg

TV SYSTEM		Germany	System-D/K	Korea
Model		TA03CW	TA03CD	TA03CM
Input signals	Sound signal (A/L, B/R)	600 Ω , Cannon connector: 0 dBm (0.775 Vrms) \pm 6 dB 10 k Ω , BNC connector: 0 dBs (1.0 Vrms) \pm 6 dB		
	IF signal (1st SIF)	50 Ω (unbalanced): 100 dB/ μ V		
	External HD (sync) Signal level	75 Ω (unbalanced), 1 Vp-p		
Output signals	A/L channel	600 Ω : 0 dBm (0.775 Vrms) \pm 0.5 dB		
	IF carrier signal level	1st SIF: 97 dB/ μ V (+4 dB, - 10 dB, 50 Ω) 2nd SIF: 90 dB/ μ V (+4 dB, - 10 dB, 50 Ω)		1st SIF: 107 dB/ μ V (+4 dB, - 10 dB, 50 Ω) 2nd SIF: 100 dB/ μ V (+4 dB, - 10 dB, 50 Ω)
	IF carrier frequency	1st: 33.4 MHz 2nd: 33.1578125 MHz	1st: 32.4 MHz 2nd: 32.1578125 MHz	1st: 34.4 MHz 2nd: 34.155787 MHz
	Pre-emphasis	50 μ s		
	Frequency response	\pm 1 dB, against flatness and pre-emphasis 30 Hz to 80 kHz (pre-emphasis; OFF) 30 Hz to 15 kHz (pre-emphasis; ON)		
	Harmonic distortion	\leq 1.0%		
	S/N ratio	\leq 50 dB (400 Hz at std. Modulation)		
	Built-in oscillator	400 Hz, 1 kHz (selectable each A/L, B/R)		
Pilot signals	Carrier frequency	54.6875 kHz		55.0699 kHz
	Stereo	50% AM by 117.5 Hz		50% AM by 149.85 Hz
	Bi-lingual	50% AM by 274.1 Hz		50% AM by 276.04 Hz
	Monaural	Non-modulation		

