

Analog Oscilloscope

Standard models

TOS-2020 / 2040 / 2050

TOS-2020FG / 2040FG / 2050FG: with built-in 6 digits frequency counter

Features

- ✓ Dual channel 20MHz/40MHz/50MHz
- ✓ High sensitivity 1mV/DIV
- ✓ Z-axis modulation input, CH1 signal output
- ✓ 10 times sweep magnification
- ✓ TV synchronization, X-Y mode
- ✓ High illumination internal graticule CRT
- ✓ Japanese encoded switch, reliable and durable
- ✓ Fully sealed durable attenuation switch
- ✓ ALT triggering function, enabling simultaneous observation of two independent signals
- ✓ Trigger level lock function, Auto synchronize function

TOS-2020



Standard model

TOS-2020FG



With built-in 6 digits frequency counter

Specifications

MODEL	TOS-2020 TOS-2020FG	TOS-2040 TOS-2040FG	TOS-2050 TOS-2050FG
Vertical system			
Sensitivity	5mV~5V/DIV, 10 steps in 1-2-5 sequence		
Sensitivity accuracy	≤3%; X5MAG: ≤5%		
Vernier sensitivity	1/2.5 or less than panel indicated value		
Bandwidth	DC~20MHz (X5MAG: DC~7MHz)	DC~40MHz (X5MAG: DC~15MHz)	DC~50MHz (X5MAG: DC~15MHz)
AC coupling	<10Hz (at 100kHz, 8DIV, frequency response -3dB)		
Rise time	Approx.17.5ns (X5MAG: Approx.50ns)	Approx.8.75ns (X5MAG: Approx.25ns)	Approx.7ns (X5MAG: Approx.23.3ns)
Input impedance	Approx.1MΩ//Approx.25pF		
DC balance shift	5mV~5V/DIV: ±0.5DIV		
Vertical mode	CH1, CH2, DUAL (ALT/CHOP), ADD, CH2 INV		
Chopping repetition frequency	Approx. 250kHz		
Input coupling	AC, GND, DC		
Max. Input voltage	300V peak-peak (AC: frequency≤1kHz)		
Common mode rejection ratio	>50:1 at 50kHz sine wave (set CH1 and CH2 at same sensitivity)		
CH2 INV BAL	Balanced point variation≤1DIV (referred to graticule center)		
CH1 signal output	Min. 20mV/DIV (50Ω output bandwidth 50Hz~5MHz)		