

# MICRONIX

## Tool for analysis of high-frequency circuit design

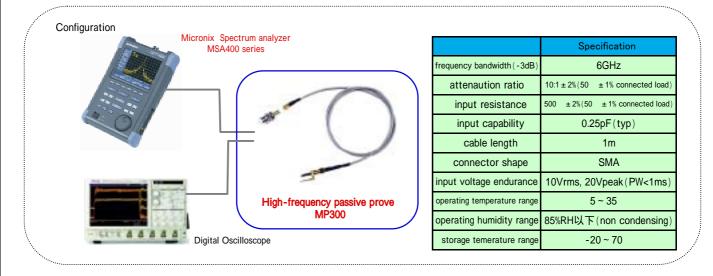
#### Optium tool for analysis of high-frequency circuit design (High-frequency passive probe MP300)

#### [~\*Application\*~]

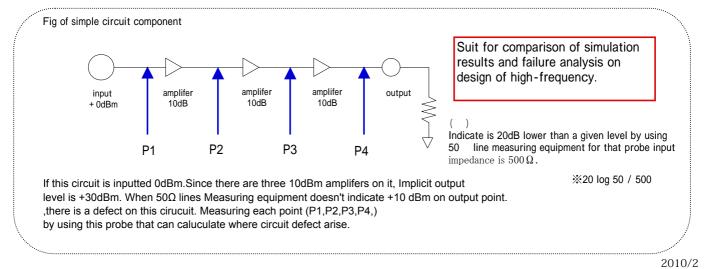
MP300 is a passive probe that has a wide frequency range and low input capacitance.

It is used in connected with measurment equipment (Spectrum analyzer or Oscilloscope). Danping ratio is 10:1 for that MP300's input resistance is 500 . Its ratio is quite lower than popular passive probe and FET probe. Operator is demanded a little attention when measure the circuit in low frequency range (DC-XXKHz) However, since this probe is low input capacitance and low impedance, it has favourable frequency response in high frequency range. It is useful for analysis and diagnostics on high-frequency circuit design.

#### [ ~ \*Solution \* ~ ]



price		input impedance		output impedance	measurement	recital
		R	С	output impedance	frequency range (roughly)	Tecital
1万円程度	Oscillo probe (10:1)	10M	10pF	9M	DC ~ 200MHz	Adjusting phase of the probe is required
30~50万円程度	FET Probe	1M	1 ~ 4pF	50	DC ~ 1000MHz	DC power supply is required
99,800円	MP300	500	0.25pF	50	100MHz ~ 6GHz	input impedance is a little lower



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