

구매규격서

COMMODITY DESCRIPTION

품목번호 Item No.	품명 Description	단위 Unit	수량 Q'ty
1	초음파 펄서리시버	EA	1

I. 용도(End-user's Use)

- 저주파수 대역에 특화된 초음파 신호 발생 및 수신을 위한 펄서리시버를 구매하려고 함.

II. 장비의 구성(Configurations of Goods)

- 펄서리시버 본체 (Manual Controlled Ultrasonic Pulser/Receiver)

III. 특정규격(특정모델 등)일 경우 사유 기재

- 특정모델: DPR300 모델 (Manual Controlled Ultrasonic Pulser/Receiver)
- 상기 제품은 초음파 펄서리시버의 제반 기능을 모두 가지고 있으며, 특히 저주파수 대역에 특화된 펄서리시버임.
- 다양한 Gain 조정 기능과 다양한 고주파수, 저주파수필터 조정 버튼을 가지고 있어서 최적의 신호 획득에 유리함.

IV. 성능 및 규격(Performance and Specification)

● 성능

▶ Pulser mode

- Pulse Type Negative spike pulse.
- Initial Transition (Fall Time) <5 ns (10-90%) typical.
- Pulse Amplitude Variable from 100V to 475V maximum.
- Amplitude depends on Energy, Damping, Amplitude, and Impedance control settings. 900V Amplitude option available.
- Pulser Energy Selectable in 4 steps.
- Pulse Impedance High or Low, user-selectable.
- Pulse Duration Typically 10 - 70 ns FWHM for 50 Ω load. Function of the Energy, Impedance, and Damping settings.
- Damping 16 Damping settings: 24.6, 26.3, 28.1, 30.3, 32.7, 35.7, 39.2, 43.5, 48.7, 55.6, 64.5, 76.9, 95.2, 125, 182, 333 Ω .
- Mode Pulse-echo or through transmission. User-selectable.
- Through Trans. Isolation Typically 80 dB at 10 MHz.
- Pulser Repetition Rate Internal: 100 - 5 KHz, External: 0 - 5 KHz, Internal oscillator frequency

userselectable in 16 steps.

- Sync Output Maximum +5V, $t_r < 30$ ns, $t_w = 200$ ns. min., TTL and CMOS compatible.
- Pulse Trigger Source Internal oscillator and external source. User-selectable.
- External Trigger Input 3 - 5 V positive going pulse. Triggering will occur on leading edge. TTL and CMOS compatible.

▶ Receiver mode

- Gain -13 to 66 dB in 1 dB steps
- Phase 0° (noninverting)
- Input Impedance 500 Ω (through transmission)
- Bandwidth .001 - 35 MHz (-3 dB) .001 - 50 MHz (-3 dB) bandwidth option available.
- High Pass Filter 1.0, 2.5, 5.0, 7.5, 12.5 MHz.
- Low Pass Filter 3, 7.5, 10, 15, 22.5 (35 MHz BW) or 5, 10, 15, 22.5, 35 (50 MHz BW)
- Noise Typically 49 μ Vp-p input referred (60 dB gain, 35 MHz BW). Typically 59 μ Vp-p input referred (60 dB gain, 50 MHz BW).
- Output Impedance 50 Ω

● 규격

Power 100/120/220/240 VAC, 50/60 Hz, 30 W

Dimensions 8.5" W x 3.5" H x 12" D Weight 10 lbs. (4.54 Kg)

V. 기타 조건(Remarks)

- ex) 제품 무상 보증기간: 납품일로부터 1년