| DC to 550MHz | Programmable Attenuators (Fail Safe) | CL 361 |
|---|---|---|

## GENERAL FEATURES

These Programmable Attenuator have been designed for use in automatic measuring devices such as measuring instruments. They have HRM (SMA) connectors at the aperture and were developed using proven coaxial cable switching and attenuation technologies. Features include compact size, rigid structure, high performance and reliability, and low cost.

## MATERIAL·FINISH

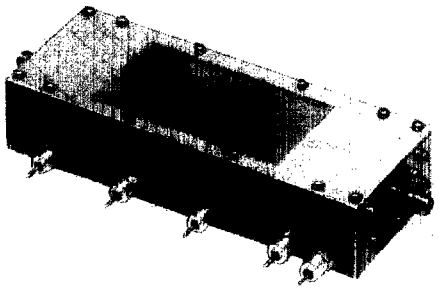
| Part name | Material | Finish |
|---|---|---|
| Body | Aluminum | Conductive White Alumite |
| Connector body | Stainless steel | Passivated |
| Insulator | Teflon | |
| Contact (Female) | Beryllium copper | Gold plated |
| P.C Board | Dielectric | Solder plated |

## OPERATIONAL ENVIRONMENT

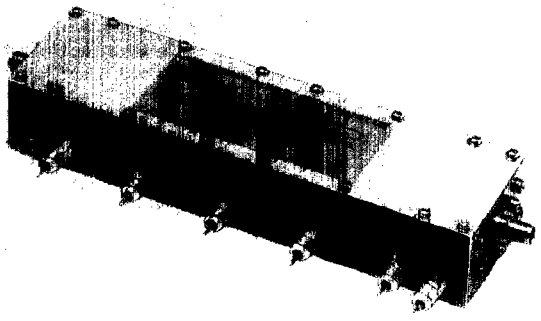
Operating temperature; −10°C~+50°C (Ensure that the equipment does not become exposed to freezing conditions.)
Humidity; 35~85%

## TEST ENVIRONMENT

Vibration resistance; 10~55Hz
Total amplitude; 1.5mm
Temperature resistance; −25°C~+60°C
Impulse resistance; 98m/s²
Testing Method per MIL-STD-202



P−AT−1

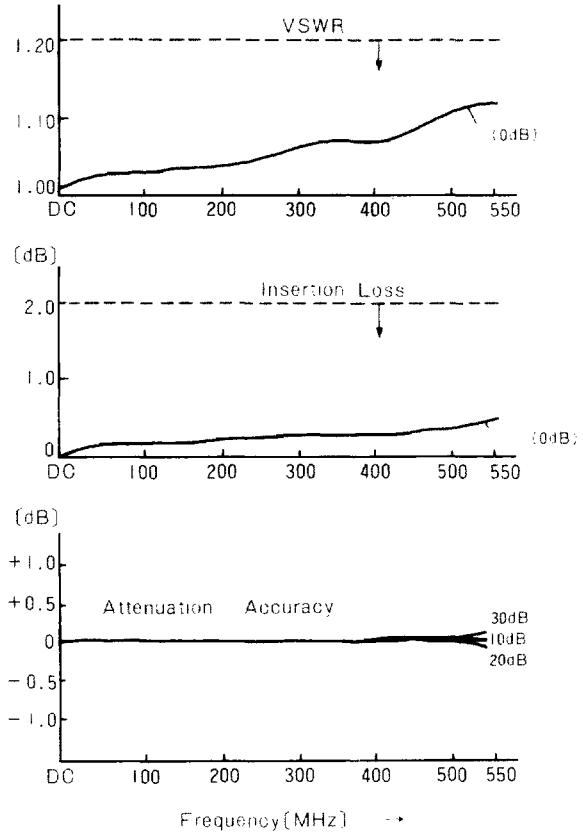


P−AT−2(1)

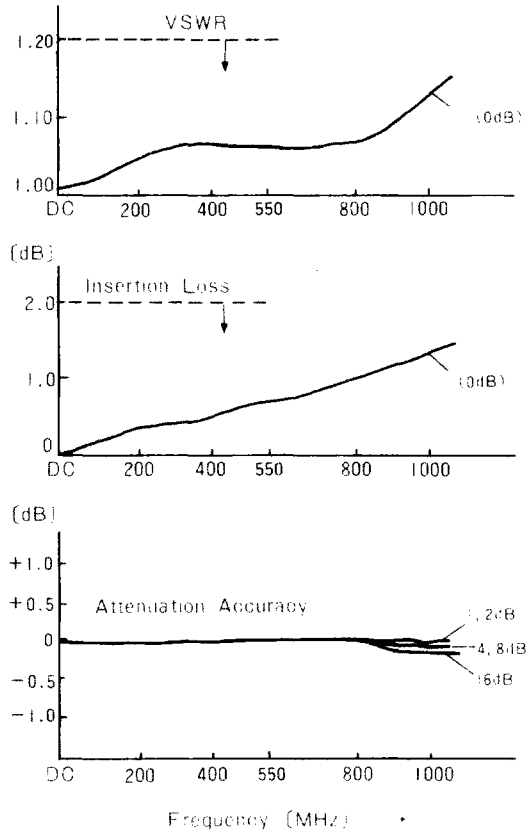
## SPECIFICATIONS

| Model No. | | P-AT-1 | P-AT-2 | P-AT-2(1) | P-AT-2(0.5) |
|---|---|---|---|---|---|
| Frequency Range | (MHz) | DC~550 | DC~550 | DC~550 | DC~550 |
| VSWR (Max) | | 1.2 | 1.2 | 1.2 | 1.2 |
| Attenuation | (dB) | 0~90 (10dB Step) | 0~100 (10dB Step) | 0~31 (1dB Step) | 0~15.5(0.5dB Step) |
| Attenuation Accuracy | (dB) | ±(1.5%+0.2) | ±(1.5%+0.2) | ±(1.5%+0.2) | ±(1.5%+0.2) |
| Insertion Loss (Max) | (dB) | 2 | 2 | 2 | 2 |
| Impedance | (Ω) | 50 | 50 | 50 | 50 |
| Power | (W) | 1 | 1 | 1 | 1 |
| Switching Volt | (DC V) | −12 | −12 | −12 | −12 |
| Switching Time (Max) | (mS) | 20 | 20 | 20 | 20 |
| Operating Life | | $1\times10^6$ | $1\times10^6$ | $1\times10^6$ | $1\times10^6$ |
| Connectors | | HRM・J | HRM・J | HRM・J | HRM・J |
| Weight | (g) | 200 | 220 | 220 | 220 |

## (Typical)DATA



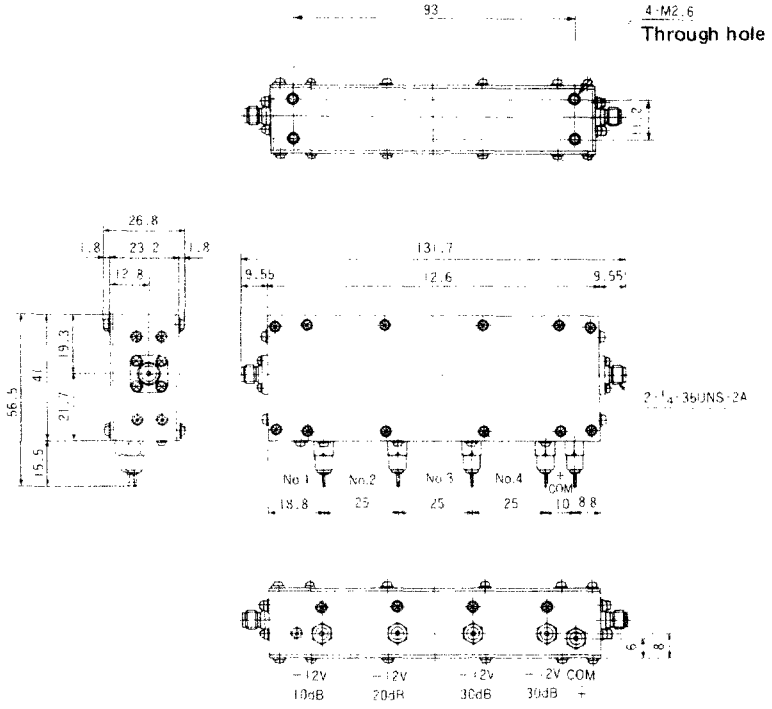

P-AT-1



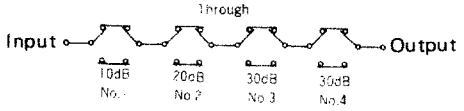

P-AT-2(1)

## DIMENSIONS

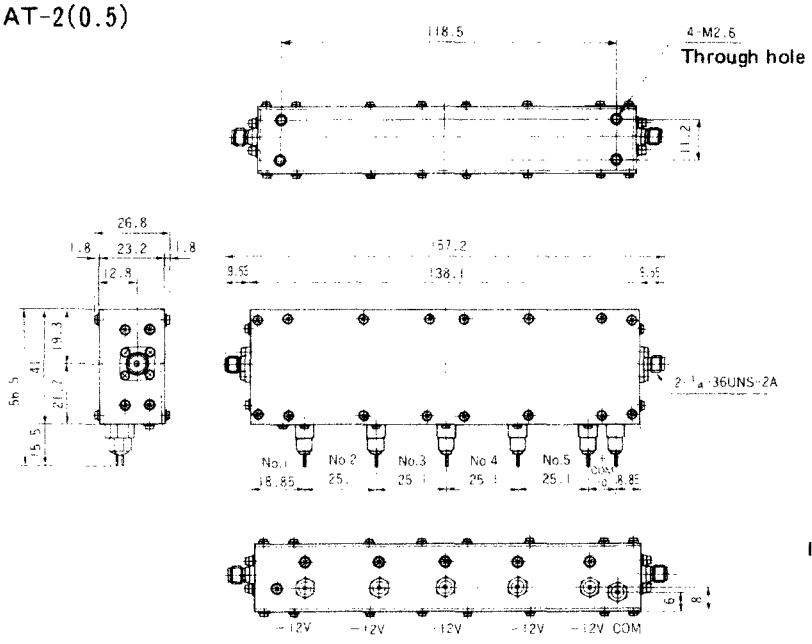
P-AT-1



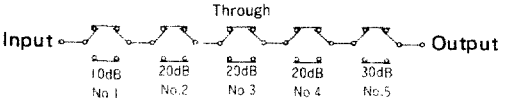

## INTERNAL CIRCUIT



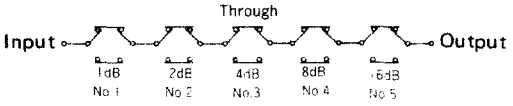

P-AT-2
P-AT-2(1)
P-AT-2(0.5)



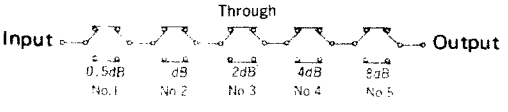

## INTERNAL CIRCUIT




P-AT-2




P-AT-2(1)




P-AT-2(0.5)