SPECIFICATIONS

Depot 1-800-517-8431

Test Equipment

99 Washington Street Melrose, MA 02176 Fax 781-665-0780 TestEquipmentDepot.com

2781 HIGH-PRECISION STANDARD RESISTOR

Nominal Value: 1Ω .

Double-sealed brass container with 4-Construction:

terminal construction.

Accuracy to Nominal Value: ±20ppm at 20±0.2°C, power

consumption of less than 0.02W, 4-terminal connection,

and in stirred oil.

Calibrated Limit of Error: ±2ppm at 20±0.2°C, power

consumption of less than 0.02W, 4-terminal connection, and in stirred oil.

Power Rating: Less than 1W.

Dimensions: Approx. 120 dia. x 183 mm (4-5/8 dia. x

7-1/8").

Weight: Approx. 3.1kg (6.8 lbs).

Attached Document: Test certificate . . . 1 copy.

2794 STANDARD RESISTORS

Code	Nominal Value	Terminal Construction	Accuracy	Calibrated Limit of Error	Temperature	Coefficient	Insulation	Dielectric Strength
			at 20±0.2°C, less than 0.1W, in stirred oil		$\alpha_{20}({\rm \times10^{-6}}/{\rm ^{\circ}C})$	β (× 10 ⁻⁶ /°C ²)	Resistance (at 0 to 40°C)	(between resistor and the case)
279403	0.1Ω	4-terminal	±0.002%	±0.0005%	-2 to +8	Less than -0.7	More than 10 $^{10}\Omega$ at 500V DC	1,500V AC for one minute
279404	1 Ω							
279405	10 Ω							
279406	100 Ω							

Temperature Coefficient - Change of resistance with temperature is expressed by the following equation:

Rt = R₂₀ [1 + α_{20} (t – 20) + β (t – 20)²]

where.

Rt; resistance at t°C, R₂₀; resistance at 20°C

Self-Heating: Less than 6°C/W at 20°C.

Change of Resistance with Temperature: Within ±20 ppm

at 20 ± 2 °C.

Temperature Coefficient: At an ambient temperature from

15 to 35°C.

Change of Resistance with Power: Within ±20 ppm against power fluctuations from 0.1 to 0.7W at 20 ± 2°C, in air.

Power Rating: 3W.

Change of Resistance with Time: Within ±5 ppm for six

months (within YOKOGAWA'S test period).

Dimensions: Approx. 174×150 mm $(6-7/8" \times 5-7/8)$ 104mm dia. (4-4/8" dia.).

Weight: Approx. 1.5kg (3.3 lbs).

Attached Document: Test certificate . . . 1 copy (includes measured data at 20°C, change of resistance with temperature from 15 to 35°C, and change of resistance with time for one year).

2792 STANDARD RESISTORS

Code	Nominal	Terminal Construction	Accuracy (at 20 ± 1°C)	Calibrated Limit of Error (at 20±0.2°C)	Temperature	Coefficient	Insulation Resistance (at 0 to 40°C)	Dielectric Strength (between resistor and the case)	
	Value				$\alpha_{20} \ (\text{X 10}^{-6}/^{\circ}\text{C})$	β (x 10 ⁻⁶ /°C ²)			
279201	0.0	01Ω	4-terminal	±0.02 %	±0.01 %	-5 to +15	Less than -0.7	More than 10 10 Ω at 500V DC	1,500V AC for one minute
279202	0.0	1 Ω		±0.01 %	±0.005%	-5 to +15	Less than -0.7		
279203	0.1	Ω		±0.005%	±0.001%	-5 to +10	Less than -0.7		
279204	1	Ω		±0.005%	±0.001%	-5 to +10	Less than -0.7		
279205	10	Ω		±0.005%	±0.001%	-5 to +10	Less than -0.7		
279206	100	Ω		±0.005%	±0.001%	-5 to +10	Less than -0.7		
279207	1	kΩ		±0.005%	±0.001%	-5 to +10	Less than -0.7		
279208	10	kΩ		±0.005%	±0.001%	-5 to +10	Less than -0.7		
279209	100	$k\Omega$	3-terminal	±0.005%	±0.002%	-10 to +10	Less than -0.05	More than 10^{12}	2,000V AC for
279210	1	$\Omega {\rm M}$		±0.01 %	±0.005%	-10 to +10	Less than -0.05	Ω at 1,000V DC	one minute

Temperature Coefficient - Change of resistance with temperature is expressed by the following equation:

Rt = R₂₀ [1 + α_{20} (t – 20) + β (t – 20)²]

where.

R+; resistance at t°C, R20; resistance at 20°C Power Rating: 3W.

Dimensions: Approx. $174 \times 150 \text{mm} (6-7/8" \times 5-7/8)$

104mm dia. (4-4/8" dia.).

Approx. 104dia×147mm (279209, 279210)

Weight: Approx. 1.5kg (3.3 lbs).

Attached Document: Test certificate 1 copy.