

**DC-18 GHz****Thumb Wheel
and Panel Mount
Step Attenuators**

- Broadband DC-18 GHz
- Small Size
- Precision Construction/High Reliability
- Precision 1 dB steps, to 69 dB
- Panel Mount or Stand Alone*

* Field-installable Mounting Kit must be purchased separately as Part No. 43017200

NOTE: Rack Mounting Kit accommodates all attenuator series housings.

Specifications

	Model 741 4741	Model 743-60 4743-60	Model 745-69 4745-69
Type N Female Connectors SMA Female Connectors			
Frequency Range (GHz)	DC-18	DC-18	DC-18
Attenuation (dB)	0-9dB in 1-dB steps	0-60 dB in 10-dB steps	0-69 dB in 1-dB steps
Relative (dB) Attenuation Deviation	Step Deviation 0 dB 0.5 1 dB ±0.5 2 dB ±0.5 4 dB ±0.5 3 dB ±0.5 5 dB ±0.5 6 dB ±0.5 7 dB ±0.5 8 dB ±0.5 9 dB ±0.5	Step Deviation 0 0.5 10 ±0.5 20 ±0.7 30 ±0.9 40 ±1.0 50 ±1.3 60 ±1.5	Step Deviation 0 1.0 1-9 ±0.5 10-19 ±1.0 30-39 ±1.4 20-29 ±1.2 40-49 ±1.5 50-59 ±1.9 60-69 ±2.0
Resettability/per drum (dB)	<0.05	<0.05	<0.05
VSWR (Max)	1.50	1.50	DC-12.4 GHz;1.50 12.4-18 GHz;1.65
Impedance (Ohms)	50	50	50
Temperature Stability (dB/dB/°C)	0.0001	0.0001	0.0001
Power:			
Average (Watts)	2	2	2
Peak (kW at duty cycle of 0.0001)	0.2	0.2	0.2

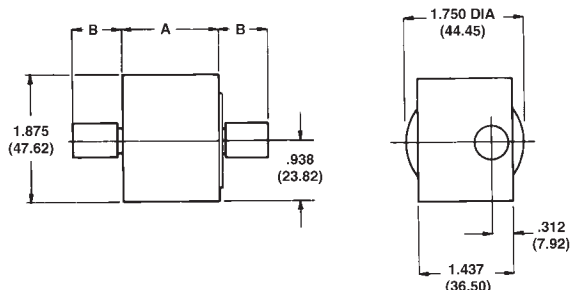
Variable Attenuators

**50 Years of
Excellence**

Ordering Information

1. Prefix "7" denotes Type N Stainless Steel Connectors (741, 743, 745)
Prefix "47" denotes SMA Stainless Steel Connectors (4741, 4743, 4745)
2. All units are bidirectional.

Outline Drawings



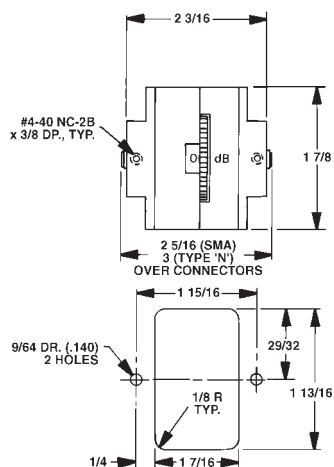
Dimensions in parentheses are in millimeters and for reference only.

Connectors made without interference per MIL-STD-348.

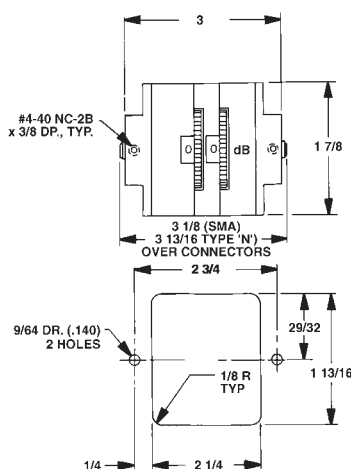
Model No.	A	B (MAX)	CONN
741	1.125 (28.75)	.781 (19.83)	TYPE N FEMALE
743-60	1.437 (36.50)		
745-69	2.250 (57.15)		

Model No.	A	B (MAX)	CONN
4741	1.125 (28.75)	.437 (11.10)	TYPE SMA FEMALE
4743-60	1.437 (36.50)		
4745-69	2.250 (57.15)		

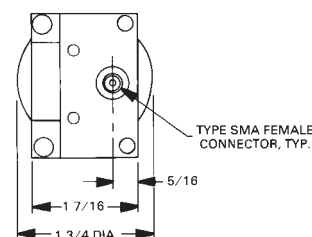
Typical Rack Mount Configurations For 740 Series Thumb Wheel Step Attenuators



**TYPICAL PANEL
CUTOUT SINGLE***



**TYPICAL PANEL
CUTOUT DUAL***



**TYPICAL
SINGLE AND DUAL
STAND ALONE**

* Requires Mounting Kit, Part No. 43017200

All dimensions are max. unless otherwise specified.


narda

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