HASCO
COMPONENTS

888-498-3242
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RF COAXIAL and WAVEGUIDE ATTENUATORS

RF Coaxial Attenuators are used to reduce signal levels and improve the match between components.

A Millimeter Waveguide Attenuator is a passive RF device specifically designed to reduce the power of a signal without affecting or reducing the waveform of the signal. Millimeter Waveguide Fixed Attenuators have a fixed level of attenuation - any signal input in to the system will be attenuated by the waveguide.

HASCO stocks thousands of RF and Microwave attenuators and can support most requirements, such as Type N, SMA, 2.92mm, 2.4mm, and 1.85mm in addition to many other RF Coaxial and Waveguide Attenuators.

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Product specifications subject to change without notification. Full specifications can be found at www.hasco-inc.com.

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RF COAXIAL ATTENUATORS

XX = dB Value

PHOTO	TYPE/PART #	FREQUENCY	POWER	TEMP RANGE	ATTENUATION	VSWR	MATERIALS
	**Type N** **HA18N5W-XX**	DC-18 GHz	5 Watts Peak: 500 W	-65° - +125°C	• 1-6 dB = ± 0.30 dB • 7-20 dB = ± 0.50 dB • 30 dB = ± 0.75 dB • 40 dB = ± 1.25 dB	1:15:1 to 1.35:1	• **Heat Sink:** Black Anodized Aluminum • **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** PTFE
	**Type N** **HA18N10W-XX**	DC-18 GHz	10 Watts Peak: 500 W	-65° - +125°C	• 1-6 dB = ± 0.50 dB • 7-20 dB = ± 0.75 dB • 30-40 dB = ± 1.00 dB	1:15:1 to 1.40:1	• **Heat Sink:** Black Anodized Aluminum • **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** PTFE
	**SMA** **HA3A2-XX**	DC-3 GHz	2 Watts Peak: 100 W	-10° - +65°C	• 1-2 dB = ± 0.40 dB • 3-9 dB = ± 0.50 dB • 10 dB = ± 0.60 dB • 15-20 dB = ± 0.70 dB • 30 dB = ± 0.80 dB	1:20:1	• **Housing:** Gold Plated Brass • **Contact:** Gold Plated BeCu • **Dielectric:** PTFE
	**SMA** **HA6A-XX**	DC-6 GHz	2 Watts Peak: 200 W	-65° - +125°C	• 1-20 dB = ± 0.50 dB • 30 dB = ± 0.75 dB	1:15:1 to 1.20:1	• **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** High Temp. Plastic Bead
	**SMA** **HA6A2-XX**	DC-6 GHz	2 Watts Peak: 200 W	-65° - +125°C	• 1-20 dB = ± 0.50 dB • 30 dB = ± 0.75 dB	1:15:1 to 1.35:1	• **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** PTFE
	**SMA** **HA18A-XX**	DC-18 GHz	2 Watts Peak: 250 W	-55° - +85°C	• 0.5-9 dB = ± 0.30 dB • 10-20 dB = ± 0.50 dB • 25-30 dB = ± 0.75 dB	1:15:1 to 1.35:1	• **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** PTFE
	**SMA** **HA18A5W-XX**	DC-18 GHz	5 Watts Peak: 500 W	-65° - +125°C	• 0.5-6 dB = ± 0.30 dB • 7-20 dB = ± 0.50 dB • 30 dB = ± 0.75 dB • 40 dB = ± 1.25 dB	1:15:1 to 1.35:1	• **Heat Sink:** Black Anodized Aluminum • **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** PTFE
	**SMA** **HA18A10W-XX**	DC-18 GHz	10 Watts Peak: 500 W	-65° - +125°C	• 1-6 dB = ± 0.50 dB • 10-20 dB = ± 0.75 dB • 30 dB = ± 1.00 dB	1:15:1 to 1.40:1	• **Heat Sink:** Black Anodized Aluminum • **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** PTFE
	**SMA** **HA26A-XX**	DC-26 GHz	2 Watts Peak: 500 W	-65° - +125°C	• 1-12 dB = ± 0.50 dB • 15-20 dB = ± 0.75 dB • 30 dB = ± 1.25 dB	1:15:1 to 1.35:1	• **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** PTFE
	**2.92mm** **HA40A-XX**	DC-40 GHz	1/2 (.5) Watt Peak: 500 W	-55° - +125°C	• 1-30 dB = ± 0.75 dB	1:30:1 to 1.40:1	• **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** High Temp. Plastic Bead
	**2.92mm** **HA40A2-XX**	DC-40 GHz	2 Watts Peak: 500 W	-55° - +125°C	• 1-9 dB = ± 0.80 dB • 10-30 dB = ± 1.00 dB	1:30:1 to 1.40:1	• **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** High Temp. Plastic Bead
	**2.4mm** **HA50A-XX**	DC-50 GHz	1/2 (.5) Watt	-55° - +100°C	• 1-10 dB = ± 1.50 dB • 20-30 dB = ± 2.00 dB	1:35:1 to 1.75:1	• **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** High Temp. Plastic Bead
	**2.4mm** **HA50A1-XX**	DC-50 GHz	1 Watt	-55° - +100°C	• 1-10 dB = ± 1.50 dB • 20-30 dB = ± 2.00 dB	1:35:1 to 1.75:1	• **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** High Temp. Plastic Bead
	**1.85mm** **HA65A-XX**	DC-65 GHz	1 Watt	-55° - +100°C	• 1-9 dB = ± 1.50 dB • 10 dB = ± 1.75 dB • 20 dB = ± 2.5 dB • 30 dB = ± 5.5 dB	1:35:1 to 1.65:1	• **Housing:** Passivated SS • **Contact:** Gold Plated BeCu • **Dielectric:** High Temp. Plastic Bead

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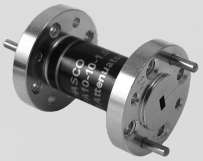
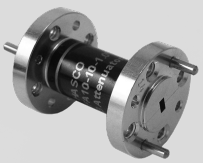
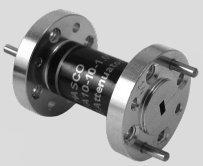
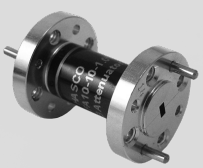
FIXED WAVEGUIDE ATTENUATORS

PHOTO	TYPE/PART #	FREQUENCY	POWER	TEMP RANGE	ATTENUATION ACCURACY	VSWR	MATERIALS
	**WR-10 W Band HWFA10-03-1.0 (1 Inch)**	75 to 110 GHz	0.3 Watts	-0° - +100°C	Accuracy: (0.7 dB @ 4%) 3 dB Typ.	1:15:1	• **Waveguide:** 075-T6 Aluminum • **Finish:** Gold Over Electroless Nickel • **Flange** UG-387/U-M
	**WR-10 W Band HWFA10-06-1.0 (1 Inch)**	75 to 110 GH	0.3 Watts	-0° - +100°C	Accuracy: (0.7 dB @ 4%) 6 dB Typ.	1:15:1	• **Waveguide:** 075-T6 Aluminum • **Finish:** Gold Over Electroless Nickel • **Flange** UG-387/U-M
	**WR-10 W Band HWFA10-10-1.0 (1 Inch)**	75 to 110 GH	0.3 Watts	-0° - +100°C	Accuracy: (0.7 dB @ 4%) 10 dB Typ.	1:15:1	• **Waveguide:** 075-T6 Aluminum • **Finish:** Gold Over Electroless Nickel • **Flange** UG-387/U-M
	**WR-12 E Band HWFA12-03-1.0 (1 Inch)**	60 to 90 GHz	0.3 Watts	-0° - +100°C	Accuracy: (0.7 dB @ 4%) 3 dB Typ.	1:15:1	• **Waveguide:** 075-T6 Aluminum • **Finish:** Gold Over Electroless Nickel • **Flange** UG-387/U
	**WR-12 E Band HWFA12-06-1.0 (1 Inch)**	60 to 90 GHz	0.3 Watts	-0° - +100°C	Accuracy: (0.7 dB @ 4%) 6 dB Typ	1:15:1	• **Waveguide:** 075-T6 Aluminum • **Finish:** Gold Over Electroless Nickel • **Flange** UG-387/U
	**WR-12 E Band HWFA12-10-1.0 (1 Inch)**	60 to 90 GHz	0.3 Watts	-0° - +100°C	Accuracy: (0.7 dB @ 4%) 10 dB Typ.	1:15:1	• **Waveguide:** 075-T6 Aluminum • **Finish:** Gold Over Electroless Nickel • **Flange** UG-387/U
	**WR-15 V Band HWFA15-03-1.0 (1 Inch)**	50 to 75 GHz	0.3 Watts	-0° - +100°C	Accuracy: (0.7 dB @ 4%) 3 dB Typ.	1:15:1	• **Waveguide:** 075-T6 Aluminum • **Finish:** Gold Over Electroless Nickel • **Flange** UG-385/U
	**WR-15 V Band HWFA15-06-1.0 (1 Inch)**	50 to 75 GHz	0.3 Watts	-0° - +100°C	Accuracy: (0.7 dB @ 4%) 6 dB Typ	1:15:1	• **Waveguide:** 075-T6 Aluminum • **Finish:** Gold Over Electroless Nickel • **Flange** UG-385/U
	**WR-15 V Band HWFA15-10-1.0 (1 Inch)**	50 to 75 GHz	0.3 Watts	-0° - +100°C	Accuracy: (0.7 dB @ 4%) 10 dB Typ.	1:15:1	• **Waveguide:** 075-T6 Aluminum • **Finish:** Gold Over Electroless Nickel • **Flange** UG-385/U

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LEVEL-SET WAVEGUIDE ATTENUATORS

PHOTO	TYPE/PART #	FREQUENCY	VARIABLE ATTENUATION	VSWR	MATERIALS
	**WR-06** **D Band** **HWLSA06-0330-ER**	110 to 170 GHz	0 to 30dB	1:30:1	• **Waveguide:** OFHC Copper • **Flange:** OFHC Copper • **Finish:** Gold Plate • **Flange** UG-387/M
	**WR-08** **F Band** **HWLSA08-0330-ER**	90 to 140 GHz	0 to 30dB	1:30:1	• **Waveguide:** OFHC Copper • **Flange:** OFHC Copper • **Finish:** Gold Plate • **Flange** UG-387/M
	**WR-10** **W Band** **HWLSA10-0330-ER**	75 to 110 GHz	0 to 30dB	1:30:1	• **Waveguide:** OFHC Copper • **Flange:** OFHC Copper • **Finish:** Gold Plate • **Flange** UG-387/M
	**WR-12** **E Band** **HWLSA12-0330-ER**	60 to 90 GHz	0 to 30dB	1:30:1	• **Waveguide:** OFHC Copper • **Flange:** OFHC Copper • **Finish:** Gold Plate • **Flange** UG-387
	**WR-15** **V Band** **HWLSA15-0330-ER**	50 to 75 GHz	0 to 30dB	1:30:1	• **Waveguide:** OFHC Copper • **Flange:** OFHC Copper • **Finish:** Gold Plate • **Flange** UG-385
	**WR-19** **U Band** **HWLSA19-0330-ER**	40 to 60 GHz	0 to 30dB	1:30:1	• **Waveguide:** OFHC Copper • **Flange:** OFHC Copper • **Finish:** Gold Plate • **Flange** UG-383/M
	**WR-22** **Q Band** **HWLSA22-0330-ER**	33 to 50 GHz	0 to 30dB	1:30:1	• **Waveguide:** OFHC Copper • **Flange:** OFHC Copper • **Finish:** Gold Plate • **Flange** UG-383/U-M
	**WR-28** **Ka Band** **HWLSA28-0330-ES**	26.5 to 40 GHz	0 to 30dB	1:25:1	• **Waveguide:** OFHC Copper • **Flange:** OFHC Copper • **Finish:** Gold Plate • **Flange** UG-599

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