

Coaxial Manually Variable Attenuators

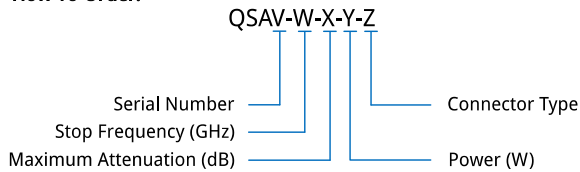
Coaxial manually variable attenuator, including rotary stepped attenuators and coaxial continuously variable attenuators. Adjust the attenuation by turning the knob or key manually.

Coaxial Rotary Stepped Attenuators

Coaxial rotary stepped attenuator, attenuation is adjusted manually according to step. Different scales or keys correspond to different attenuation. Its precision is higher than that of continuously variable attenuator.

Features: Low VSWR, High Attenuation Flatness; **Applications:** Wireless, Radar, Laboratory Test.

How To Order:



Examples: To order a coaxial manually variable attenuator, DC~6GHz, attenuation 0~60dB, 2W, SMA female, specify QSA06A-6-60-2-S.

QSA40, DC~40GHz, 0~9dB, 2W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA40-32-9-2-Z	DC~32	0~9/1	1.8	2	1.2	2	2.92mm, 3.5mm
QSA40-40-9-2-Z	DC~40		1.9	2.2	1.5		

QSA28, DC~28GHz, 0~90dB, 25W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA28-18-9-Y-Z	DC~18	0~9/1	1.6	1	0.8	2, 10	SMA, 3.5mm
QSA28-26.5-9-Y-Z	DC~26.5		1.7	1.8	1		
QSA28-28-9-10-Z	DC~28		1.75	1.8	1.5	10	
QSA28-18-70-Y-Z	DC~18	0~70/10	1.6	1	1.5 / 4%	2, 10	SMA, 3.5mm
QSA28-26.5-60-Y-Z	DC~26.5	0~60/10	1.75	1.8	1.5 / 4%	2, 10	SMA, 3.5mm
QSA28-8-90-Y-Z	0.1~8	0~90/10	1.6	1	1.5 / 4%	2, 10	SMA, 3.5mm
QSA28-12.4-90-Y-Z	0.1~12.4						
QSA28-18-90-Y-Z	0.1~18						
QSA28-18-70-25-Z	DC~18	0~70/10	1.6	1	1.5 / 4%	25	SMA, 3.5mm
QSA28-26.5-70-25-Z	DC~26.5		1.75	1.8	1.5 / 4%		
QSA28-28-70-25-Z	DC~28		1.75	1.8	2 / 5%		

QSA26A, DC~26.5GHz, 0~99dB, 10W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA26-8-69-Y-Z	DC~8		1.5	1.25	0.5 (0~9dB@DC~8GHz),		N,
QSA26-12.4-69-Y-Z	DC~12.4		1.6	1.5	0.8 (0~9dB@8~18GHz), 1 (10~19dB),	2, 10	SMA,
QSA26-18-69-Y-Z	DC~18	0~69/1	1.75	1.75	1.5 (20~49dB), 2 (50~69dB)		3.5mm
QSA26-26.5-69-2-3	DC ~ 26.5		1.85	2	1.5 (0~9dB), 1.75 (10~19dB),	2	3.5mm
QSA26-8-99-2-Z	DC~8		1.5	1.25	0.5 (0~9dB@0.1~8GHz),		N,
QSA26-12.4-99-2-Z	DC~12.4		1.5	1.5	0.8 (0~9dB@8~18GHz), 1 (10~19dB),	2	SMA,
QSA26-18-99-2-Z	DC~18	0~99/1	1.75	1.5	1.5 (20~49dB), 2 (50~69dB),		3.5mm
QSA26-8-99-10-Z	0.1~8		1.5	1.25	2.5 / 3.5% (70~99dB)		
QSA26-8-99-10-Z	0.1~12.4	0~99/1	1.6	1.5	0.5 (0~9dB@0.1~8GHz), 0.8 (0~9dB@8~18GHz), 1 (10~19dB),	10	N,
QSA26-12.4-99-10-Z	0.1~18		1.75	1.75	1.5 (20~49dB), 2 (50~69dB), 2.5 or 3.5% (70~99dB)		SMA, 3.5mm

QSA26B, DC~26.5GHz, 0~60dB, 25W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA26-26.5-60-25-S	DC~26.5	0~60/10	1.8	1.8	1.5 or 4%	25	SMA

QSA18A, DC~18GHz, 0~90dB, 25W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA18A-8-9-Y-S	DC~8		1.4	0.8	0.6		
QSA18A-12.4-9-Y-S	DC~12.4	0~9/1	1.5	1	0.8	2, 10	SMA
QSA18A-18-9-Y-S	DC~18		1.6	1.2	1		
QSA18A-8-90-Y-S	DC~8		1.4	1			
QSA18A-12.4-90-Y-S	DC~12.4	0~90/10	1.5	1.2	1.5 (0~60dB), 2.5 / 3.5% (70~90dB)	2, 10	SMA
QSA18A-18-90-Y-S	DC~18		1.6	1.5			
QSA18A-18-70-Y-S	DC~18	0~70/10	1.65	1	1.5 or 4%	25	SMA

QSA18B, DC~18GHz, 0~99dB, 5W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA18B-8-69-Y-S	DC~8		1.5	1	0.5 (0~9dB@DC~8GHz),		
QSA18B-12.4-69-Y-S	DC~12.4	0~69/1	1.6	1.25	0.8 (0~9dB@8~18GHz), 1 (10~19dB),	2, 5	SMA
QSA18B-18-69-Y-S	DC~18		1.75	1.5	1.5 (20~49dB), 2 (50~69dB)		
QSA18B-8-99-Y-S	0.1~8		1.5	1	0.5 (0~9dB@0.1~8GHz),		
QSA18B-12.4-99-Y-S	0.1~12.4	0~99/1	1.6	1.25	0.8(0~9dB@8~18GHz), 1 (10~19dB),	2, 5	SMA
QSA18B-18-99-Y-S	0.1~18		1.75	1.5	1.5 (20~49dB), 2 (50~69dB),		
QSA18B-18-99-Y-S					2.5 / 3.5% (70~99dB)		

QSA18C, DC~18GHz, 0~99.9dB, 2W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA18C-8-99.9-Y-Z	DC~8	0~99.9/0.1	1.5	1.3	0.5 (0.1~0.9dB@DC~8GHz), 0.8 (1~9.9dB@DC~8GHz), 1 (1~9.9dB@8~18GHz), 1.5 (10~19dB), 2 (20~49dB), 2.5 (50~69dB), 3 or 3.5% (70~99dB)	2	N, SMA, 3.5mm
QSA18C-12.4-99.9-Y-Z	DC~12.4		1.65	1.6			
QSA18C-18-99.9-Y-Z	DC~18		2	1.7			

QSA06A, DC~6GHz, 0~90dB, 10W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA06A-2.5-1-Y-Z	DC~2.5	0~1/0.1	1.25	0.5	0.2	2, 10	SMA, N
QSA06A-3-1-Y-Z	DC~3		1.3	0.5	0.2		
QSA06A-4.3-1-Y-Z	DC~4.3		1.35	0.75	0.3		
QSA06A-6-1-Y-Z	DC~6		1.4	1	0.3		
QSA06A-2.5-10-Y-Z	DC~2.5	0~10/1	1.25	0.4	0.4	2, 10	SMA, N
QSA06A-3-10-Y-Z	DC~3		1.3	0.5	0.5		
QSA06A-4.3-10-Y-Z	DC~4.3		1.35	0.75	0.5		
QSA06A-6-10-Y-Z	DC~6		1.4	1	0.5		
QSA06A-2.5-60-Y-Z	DC~2.5	0~60/10	1.25	0.4	0.5	2, 10	SMA, N
QSA06A-3-60-Y-Z	DC~3		1.3	0.5	0.5 (1~50dB), 0.8 / ±3% (50~60dB)		
QSA06A-4.3-60-Y-Z	DC~4.3		1.35	0.75			
QSA06A-6-60-Y-Z	DC~6		1.4	1			
QSA06A-2.5-90-Y-Z	DC~2.5	0~90/10	1.25	0.4		0.5 (1~50dB), ±3% (50~90dB)	2, 10
QSA06A-3-90-Y-Z	DC~3		1.3	0.5	0.5 (1~50dB), ±3.5% (50~90dB)		

QSA06B, DC~6GHz, 0~100dB, 10W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (max.)		Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
			SMA	N				
QSA06B-2.5-11-Y-Z	DC~2.5	0~11/0.1	1.3	1.45	1	0.2 (1dB), 0.4(2~11dB)	2, 10	SMA, N
QSA06B-3-11-Y-Z	DC~3		1.35	1.45	1.2			
QSA06B-4.3-11-Y-Z	DC~4.3		1.4	1.55	1.5	0.3 (1dB), 0.5(2~11dB)		
QSA06B-6-11-Y-Z	DC~6		1.55	1.6	1.8			
QSA06B-2.5-50-Y-Z	DC~2.5	0~50/1	1.3	1.35	1	0.5 (1~10dB), 0.8 / 3% (50~60dB)	2, 10	SMA, N
QSA06B-2.5-70-Y-Z	DC~2.5	0~70/1	1.3	1.45	1	0.5 (1~10dB), 0.8 / 3% (11~59dB), 1.5 / 3% (60~70dB)	2, 10	SMA, N
QSA06B-3-70-Y-Z	DC~3		1.35	1.45	1.2			
QSA06B-4.3-70-Y-Z	DC~4.3		1.4	1.55	1.5			
QSA06B-6-70-Y-Z	DC~6		1.55	1.6	1.8			
QSA06B-2.5-100-Y-Z	DC~2.5	0~100/1	1.3	1.45	1	0.5 (1~10dB), 0.8 / 3% (11~59dB), 1.5 / 3% (60~69dB), ±3.5% (70~100dB)	2, 10	SMA, N
QSA06B-3-100-Y-Z	DC~3		1.35	1.45	1.2			

QSA06C, DC~6GHz, 0~100dB, 10W

Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA06C-2.5-11-Y-N	DC~2.5	0~11/0.1	1.4	1.2	0.3 (1dB), 0.5 (2~11dB)	2, 10	N
QSA06C-3-11-Y-N	DC~3		1.45	1.2			
QSA06C-4.3-11-Y-N	DC~4.3		1.5	1.5			
QSA06C-6-11-Y-N	DC~6		1.65	1.8			
QSA06C-2.5-70-Y-N	DC~2.5	0~70/1	1.4	1.2	0.8 / 3% (0~60dB), 1.5 / 3% (61~70dB)	2, 10	N
QSA06C-3-70-Y-N	DC~3		1.45	1.2			
QSA06C-4.3-70-Y-N	DC~4.3		1.5	1.5			
QSA06C-6-70-Y-N	DC~6		1.65	1.8			
QSA06C-2.5-100-Y-N	DC~2.5	0~100/1	1.4	1.2	0.8 / 3% (0~59dB), 1.5 / 3% (60~69dB), ±3.5% (70~100dB)	2, 10	N
QSA06C-3-100-Y-N	DC~3		1.45	1.2			

QSA06D, DC~6GHz, 0~101dB, 10W

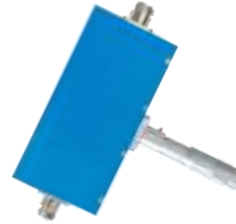
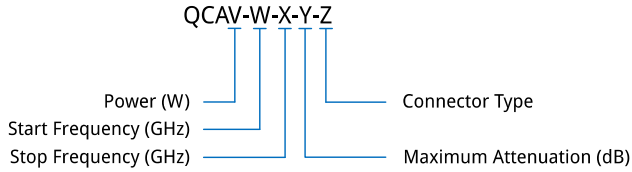
Part Number	Frequency (GHz)	Attenuation Range/Step (dB)	VSWR (Max.)	Insertion Loss (dB, Max.)	Accuracy (±dB)	Power (W)	Connector
QSA06D-2.5-71-Y-N	DC~2.5	0~71/0.1	1.5	1.5	0.3 (0.1~1dB), 0.4 (1~10dB), 0.8 (10~60dB), 1.5 (71dB)	2, 10	N
QSA06D-3-71-Y-N	DC~3		1.6	1.7			
QSA06D-4.3-71-Y-N	DC~4.3		1.7	2			
QSA06D-6-71-Y-N	DC~6		1.75	2.5			
QSA06D-2.5-101-Y-N	DC~2.5	0~101/0.1	1.5	1.5	0.3 (0.1~1dB), 0.4 (1~10dB), 0.8 (10~60dB), 1.5 (61~70dB), ±3.5% (70~101dB)	2, 10	N
QSA06D-3-101-Y-N	DC~3		1.6	1.7			

Coaxial Continuously Variable Attenuators

Coaxial continuously variable attenuators, adjust the attenuation by turning the knob manually. Theoretically, any attenuation can be adjusted within the nominal range.

Features: Low VSWR, High Attenuation Flatness; **Applications:** Wireless, Radar, Laboratory Test.

How To Order:



Examples: To order a coaxial continuously variable attenuator, 75W, 2.9~3.1GHz, attenuation 0~10dB, N Female, specify QCA75-2.9-3.1-10.

* The 'W' and 'X' in the following table represent the frequency range. Only 100MHz and 200MHz bandwidth is provided.

Part Number	Frequency (GHz)	Attenuation Range (dB)	Power (W)	Connector	Size (mm)
QCA1-0-2.5-10-N	DC~2.5	0~10	1	N	47.5*42*20
QCA1-0-2.5-16-N		0~16			
QCA1-0-2.5-10-S	DC~2.5	0~10	1	SMA	41*38*20
QCA1-0-2.5-16-S		0~16			
QCA10-0.5-4-20	0.5~4	0~20	10	N	148*170*19
QCA50-W-X-10-N	0.9~4	0~10	50	N	120*96.5*75
QCA75-W-X-10-N	0.9~4	0~10	75	N	134.4*98*75
QCA75-W-X-15-N		0~15			
QCAK1-W-X-10-N	0.9~10.5	0~10	100	N	190*102*75
QCAK1-W-X-12-N		0~12			
QCAK1-W-X-15-N		0~15			
QCAK1-W-X-20-N		0~20			
QCAK3-W-X-10-N	0.9~10.5	0~10	300	N	259*102*75
QCAK3-W-X-12-N		0~12			
QCAK3-W-X-15-N		0~15			
QCAK3-W-X-25-N		0~25			
QCA10-2-18-40-S	2~18	0~40	10	SMA	148*170*21
QCA10-2-18-40-N				N	