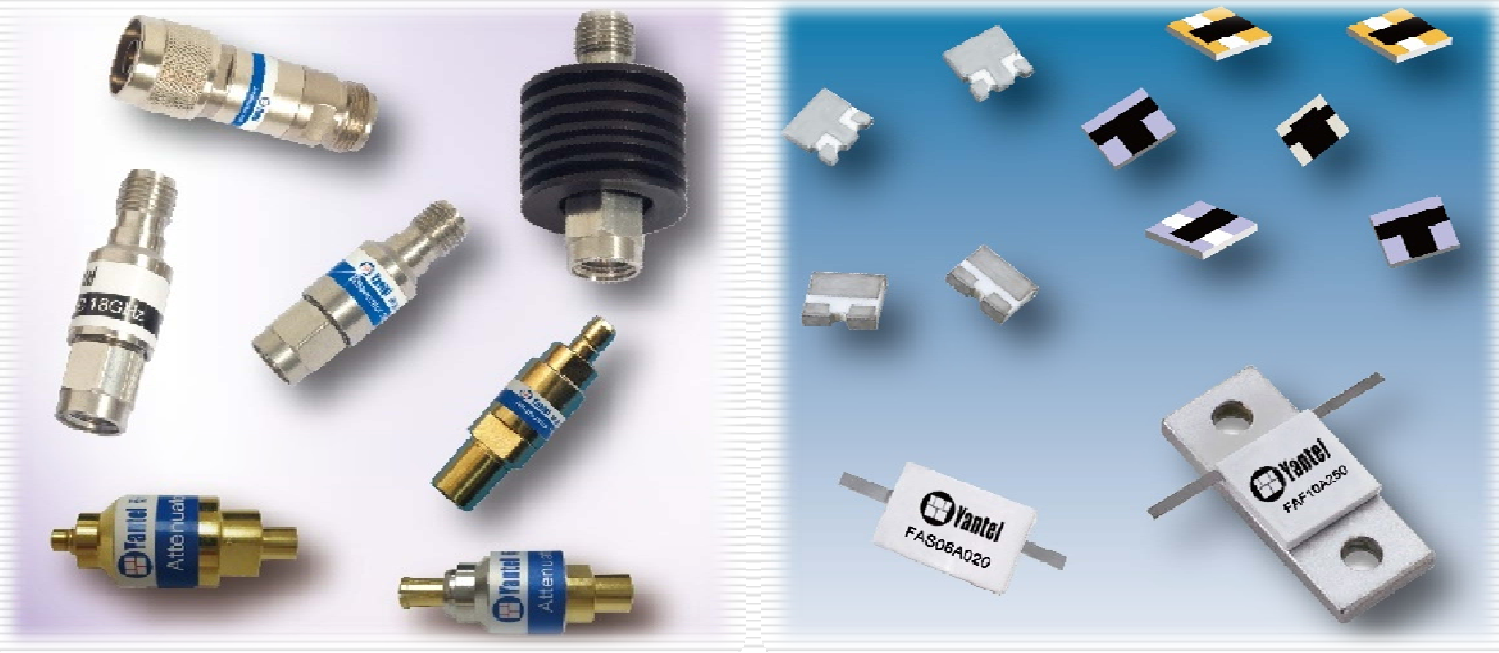




*Key Patens Lead Microwave Tech*

- **Fixed Attenuator**
- **Fixed Attenuator chip**



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# Fixed Attenuator

patent product



## Features

- Frequency range from DC to 18GHz
- Attenuation from 1dB to 40dB
- Input power: 2W~5W
- High attenuation accuracy
- Low VSWR
- Stainless steel or brass
- Ceramic chip
- Low cost-high performance

## Applications

- Communications
- Digital transmission
- Radar
- Broadcast television
- Test

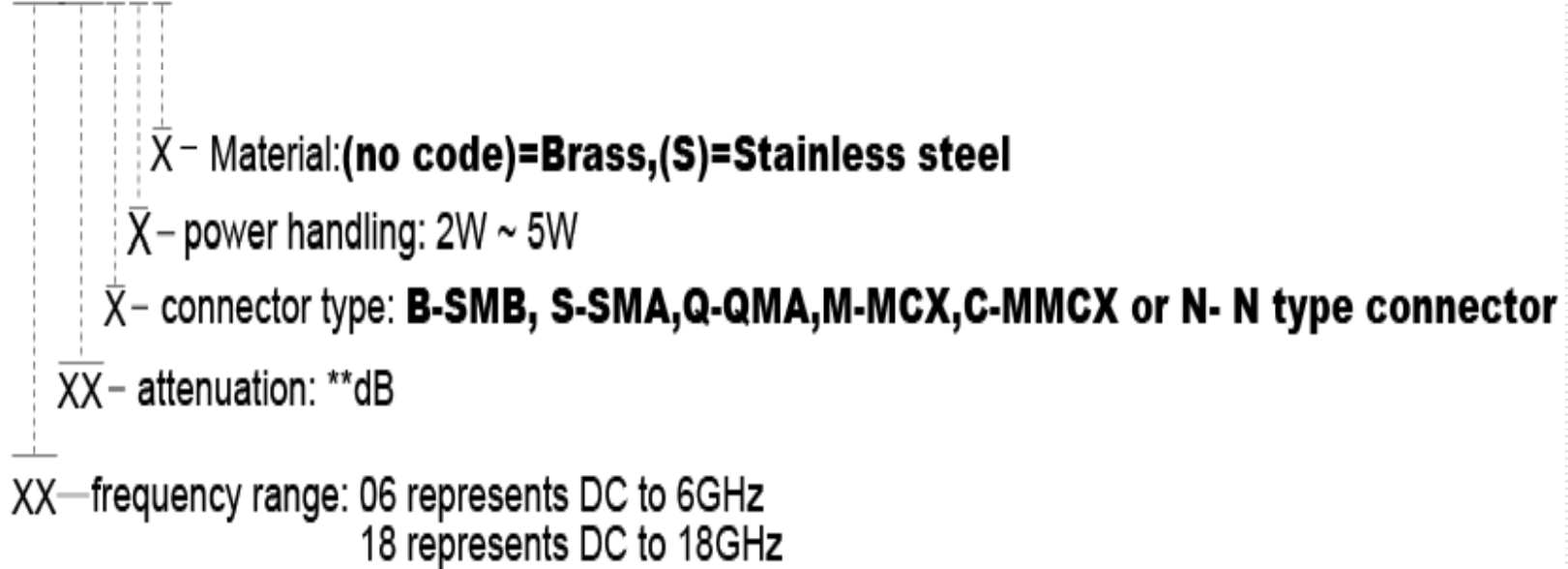


# Fixed Attenuator



## Model No. Description

FATXXXXXXXX



Example: Model No. FAT0603S2 is fixed attenuator DC-6GHz, 3dB, SMA type, 2W, Brass.



# Fixed Attenuator



DC to 6GHz, 2 Watts, SMA(S), N type(N), QMA(Q),MCX(M),MMCX(C) Coaxial Fixed Attenuator

Model No.	Freq. Range (GHz) $f_L$ - $f_U$	Attenuation (dB)	Attenuation Accuracy (dB)		VSWR (:1)				Power (Watt)
					DC - 2GHz	2 - 4GHz	4 - 6GHz	DC - 6GHz	
			DC to 6GHz		Typical	Typical	Typical	Max.	
FAT0601*2	DC-6	1	±0.2	±0.4	1.10	1.15	1.20	1.25	2
FAT0602*2		2	±0.2	±0.4	1.10	1.15	1.20	1.25	
FAT0603*2		3	±0.2	±0.4	1.10	1.15	1.20	1.25	
FAT0604*2		4	±0.2	±0.3	1.10	1.15	1.20	1.25	
FAT0605*2		5	±0.2	±0.3	1.10	1.15	1.20	1.25	
FAT0606*2		6	±0.2	±0.3	1.10	1.15	1.20	1.25	
FAT0609*2		9	±0.2	±0.5	1.10	1.15	1.20	1.25	
FAT0610*2		10	±0.25	±0.5	1.10	1.15	1.20	1.25	
FAT0615*2		15	±0.55	±0.6	1.10	1.15	1.20	1.25	
FAT0620*2		20	±0.6	±0.6	1.10	1.15	1.20	1.25	
FAT0630*2		30	±0.6	±2.0	1.10	1.15	1.20	1.30	



SMA

MCX

MMCX

N type

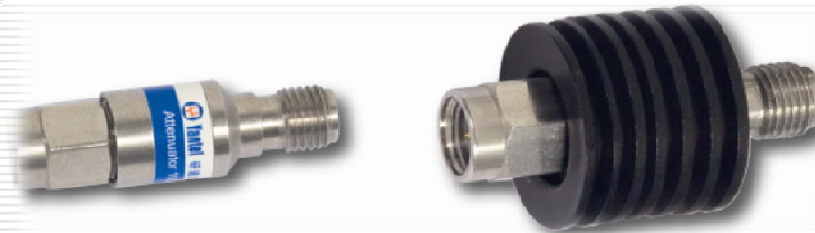
QMA

# Fixed Attenuator

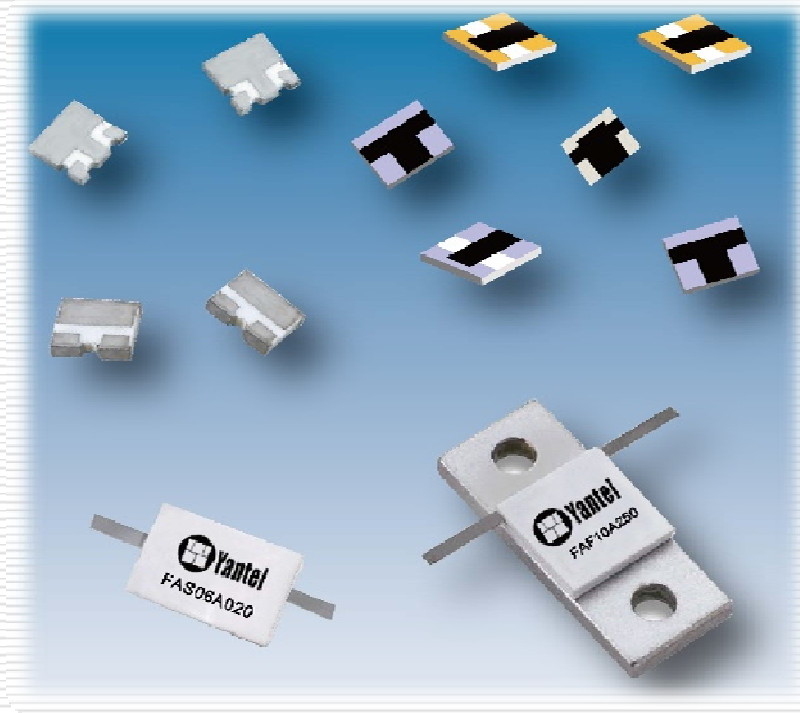


DC to 18GHz, 2 or 5 Watts, SMA(S) Coaxial Fixed Attenuator

Model No.	Freq. Range (GHz) $f_L$ - $f_U$	Attenuation (dB)	Attenuation Accuracy (dB) DC to 18GHz	VSWR (:1)				Power (Watt)
				DC - 8GHz	8 - 12GHz	12- 18GHz	DC - 18GHz	
				Typical	Typical	Typical	Max.	
FAT1803*2	DC-18	1	±0.3	1.15	1.20	1.30	1.50	2
FAT1806*2		6	±0.5	1.15	1.20	1.30	1.50	
FAT1810*2		10	±1.0	1.15	1.20	1.30	1.50	
FAT1820*2		20	±1.2	1.15	1.20	1.30	1.50	
FAT1830*2		30	±1.5	1.15	1.30	1.55	1.65	
FAT1840*2		40	±1.5	1.15	1.30	1.55	1.65	
FAT1803*5		3	±0.3	1.15	1.20	1.30	1.50	5
FAT1806*5		6	±0.5	1.15	1.20	1.30	1.50	
FAT1810*5		10	±1.0	1.15	1.20	1.30	1.50	
FAT1820*5		20	±1.2	1.15	1.20	1.30	1.50	
FAT1830*5		30	±1.5	1.15	1.30	1.55	1.65	
FAT1840*5		40	±1.5	1.15	1.30	1.55	1.65	



# Fixed Attenuator Chip



## Features

- Frequency range: DC to 26.5GHz
- Laser trimmed
- Material in Al<sub>2</sub>O<sub>3</sub>, BeO or AlN
- Attenuation: 1dB to 30dB
- Input power: 100mW~400W
- High attenuation accuracy
- Low VSWR
- Temperature stable -55°C to +150°C

## Applications

- Communications
- Point to Point base station
- Digital transmission
- Radar
- Broadcast television





# Fixed Attenuator Chip

## Specifications

Low Power, SMD, FAC Series(100mW-2W)

DC to 6GHz, 2W, 50Ω, thick film, size(mm): 3.10×3.68×0.53									
Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)			VSWR:1 (typical)				
		DC~2GHz	2~4GHz	4~6GHz	DC~2GHz	2~4GHz	4~6GHz		
FAC0601	1	±0.2	+0.3	+0.5	1.10	1.20	1.30		
FAC0602	2	±0.2	+0.5	+0.8	1.10	1.20	1.30		
FAC0603	3	±0.2	+0.5	+0.8	1.10	1.20	1.30		
FAC0606	6	±0.2	+0.5	+0.8	1.10	1.20	1.30		
FAC0610	10	±0.2	+0.3	+0.5	1.10	1.20	1.30		
DC to 10GHz, 100mW, 50Ω, thick film, size(mm): 1.20×2.00×0.53									
Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR:1 (typical)			
		DC~4GHz	4~6GHz	6~8GHz	8~10GHz	DC~4GHz	4~6GHz	6~8GHz	8~10GHz
FAC1001	1	±0.3	+0.3	+0.3	+0.5	1.05	1.10	1.15	1.20
FAC1002	2	±0.3	+0.3	+0.4	+0.5	1.05	1.05	1.05	1.10
FAC1003	3	±0.3	+0.3	+0.4	+0.6	1.05	1.05	1.10	1.15
FAC1006	6	±0.3	+0.3	+0.5	+0.7	1.05	1.05	1.05	1.15
FAC1010	10	±0.3	+0.5	+0.75	+1.0	1.05	1.10	1.15	1.20
DC to 12.4GHz, 300mW, 50Ω, thick film, size(mm): 1.52×1.90×0.41									
Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR:1 (typical)			
		DC~3GHz	3~6GHz	6~8.5GHz	8.5~12.4GHz	DC~3GHz	3~6GHz	6~8.5GHz	8.5~12.4GHz
FAC1201	1	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1202	2	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1203	3	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1206	6	±0.3	+0.5	+0.75	+1.0	1.05	1.15	1.25	1.40
FAC1210	10	±0.3	+0.5	+0.75	+1.0	1.05	1.20	1.25	1.40

# Fixed Attenuator Chip



## DC to 12.4GHz, 2W, 50Ω, thin film, gold terminal, size(mm): 3.10×3.68×0.38

Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR:1 (typical)			
		DC~3GHz	3~6GHz	6~8.5GHz	8.5~12.4GHz	DC~3GHz	3~6GHz	6~8.5GHz	8.5~12.4GHz
FAC1201P	1	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1202P	2	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1203P	3	±0.3	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1206P	6	±0.3	+0.5	+0.75	+1.0	1.05	1.15	1.25	1.40
FAC1210P	10	±0.3	+0.5	+0.75	+1.0	1.05	1.20	1.25	1.40

## DC to 18GHz, 200mW, 50Ω, thin film, gold terminal, wrap ground terminal, size(mm): 1.52×1.90×0.41

Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR:1 (typical)			
		DC ~ 4GHz	4~8GHz	8~12.4GHz	12.4~18GHz	DC~4GHz	4~8GHz	8~12.4GHz	12.4~18GHz
FAC1801	1	±0.5	+0.5	+0.5	+0.8	1.05	1.10	1.15	1.40
FAC1802	2	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1803	3	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1804	4	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC1806	6	±0.5	+0.5	+0.75	+1.0	1.05	1.15	1.25	1.40
FAC1810	10	±0.5	+0.5	+0.75	+1.0	1.05	1.20	1.25	1.40

## DC to 26.5GHz, 200mW, 50Ω, thin film, gold terminal, wrap ground terminal, size(mm): 1.52×1.90×0.28

Part No.	Attenuation (dB)	Typical Attenuation Accuracy(dB)				VSWR:1 (typical)			
		DC~8.5GHz	8.5~12.4GHz	12.4~18GHz	18~26.5GHz	DC~8.5GHz	8.5~12.4GHz	12.4~18GHz	18~26.5GHz
FAC2601	1	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC2602	2	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC2603	3	±0.5	+0.5	+0.5	+1.0	1.05	1.10	1.15	1.40
FAC2606	6	±0.5	+0.5	+0.75	+1.0	1.05	1.15	1.25	1.40
FAC2610	10	±0.5	+0.5	+0.75	+1.0	1.05	1.20	1.25	1.40



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