

# NFA2650

DC~26.5GHz, 50W

Features:  
 \* Low VSWR  
 \* High Attenuation Flatness

Applications:  
 \* Wireless  
 \* Transmitter  
 \* Laboratory Test  
 \* Radar

### Electrical

Frequency: DC~26.5GHz  
 Attenuation: 1~60dB  
 Impedance: 50Ω  
 Average Power\*1: 50W@25°C max.

[1] Derated linearly to 5W@125°C.

### Mechanical

RF Connectors: SMA, 3.5mm  
 Housing: Aluminum  
 Outer Conductor: Passivated stainless steel or gold plated brass  
 Male Inner Conductor: Gold plated brass  
 Female Inner Conductor: Gold plated beryllium copper

### Environmental

Temperature: -55~+85°C

### Peak Power

Peak Power (W)	Pulse Width (μs)	Duty Cycle (%)	Applicable Scope
200	5	10	@SMA 10, 20, 30, 40dB @3.5mm 10, 20, 30, 40dB
		5	@SMA 1~9dB
500	5	10	@SMA 50, 60dB
1000		2.5	@3.5mm 3, 6, 50, 60dB

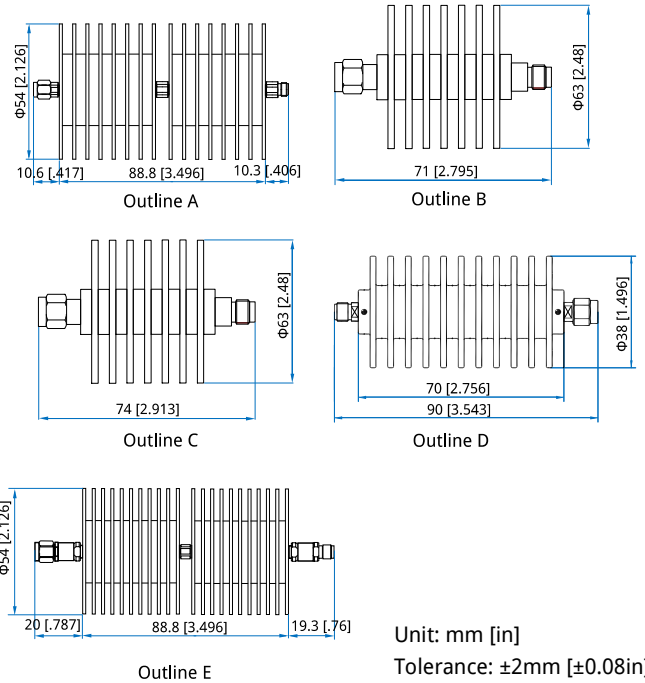
### Attenuation Accuracy and VSWR (SMA)

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)							VSWR (max.)
	1~9	10	20	30	40	50	60	
DC~26.5	-1.0/+2.5	-2.0/+2.0	-2.0/+2.0	-2.0/+2.0	-2.0/+2.0	±1.0	±1.0	1.3

### Attenuation Accuracy and VSWR (3.5mm)

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)								VSWR (max.)
	3	6	10	20	30	40	50	60	
DC~12.4	-0.8/+0.3	±1.0	-	-	-	-	-1.0/+0.75	-1.0/+0.5	1.20
DC~18	±0.8	±1.0	-	-	-	-	±1.0	-1.0/+0.75	1.25
DC~26.5	-0.8/+1.0	-1.0/+1.7	-2.0/+2.0	-2.0/+2.0	-2.0/+2.0	-2.0/+2.0	±1.0	±1.0	1.30, 1.35@10~40dB

### Outline Drawings



Unit: mm [in]  
 Tolerance: ±2mm [±0.08in]

### How To Order

#### NFA2650-X-Y-Z

X: Frequency in GHz  
 Y: Attenuation in dB  
 Z: Connector type

#### Connector naming rules:

S - SMA (Outline D - 1~9dB, Outline A - 10~40dB, Outline B - 50~60dB)  
 3 - 3.5mm (Outline C - 3, 6, 50, 60dB, Outline E - 5 - 10~40dB)

#### Examples:

To order an attenuator, DC~26.5GHz, SMA male to SMA female, 20dB attenuation, specify NFA2650-26.5-20-S.