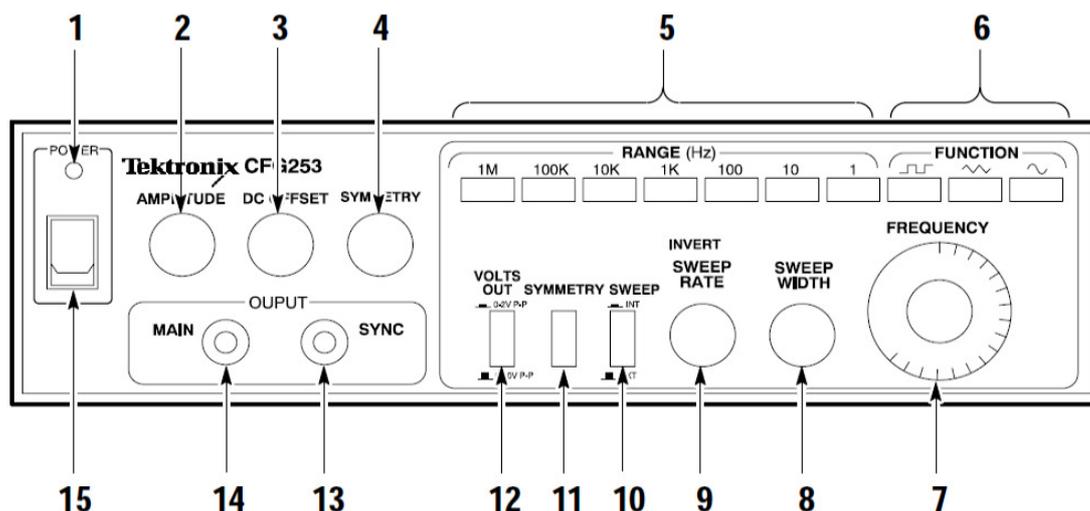


# Quick Guide for CFG253 3 MHz Function Generator



No	Part Description	Function																				
1	<b>POWER On Light</b>	Indicates power on/off condition																				
2	<b>AMPLITUDE Control</b>	Determines the voltage level at the MAIN output connector																				
3	<b>DC OFFSET</b> (Pull out to activate)	It control sets the DC level and polarity of the signal at the MAIN output. When the control is pushed in, the signal is centered at zero VDC.																				
4	<b>SYMMETRY Knob</b> (has effect when SYMMETRY button is pushed in)	<p>This knob changes the duty cycle of a square wave signal or the rise and fall times of sawtooth and sine wave signals. Table below shows the effect of this knob on each waveform shape.</p> <table border="1"> <thead> <tr> <th></th> <th>Position of the knob is Centre</th> <th>Turn the knob counter clockwise</th> <th>Turn the knob clockwise</th> </tr> <tr> <th>Type</th> <th>Waveform</th> <th>SYMMETRY CCW</th> <th>SYMMETRY CW</th> </tr> </thead> <tbody> <tr> <td>Square</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Triangle</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sine</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Position of the knob is Centre	Turn the knob counter clockwise	Turn the knob clockwise	Type	Waveform	SYMMETRY CCW	SYMMETRY CW	Square				Triangle				Sine			
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5	<b>RANGE (Hz) Buttons</b>	Determines the frequency range of the signal at the MAIN output																				
6	<b>FUNCTION Buttons</b>	To provide sine, square or sawtooth signal from the MAIN output																				
7	<b>FREQUENCY Control</b>	Determines the frequency of the signal at the MAIN output within the range set by the RANGE buttons																				
8	<b>SWEEP WIDTH</b>	Adjusts the sweep amplitude																				
9	<b>SWEEP RATE</b>	Adjusts the rate of the internal sweep generator and the repetition rate of the burst gate																				
10	<b>SWEEP Button</b> (Push in for internal sweep)	This button activates the sweep rate and sweep width controls. When the button is pushed out, the function generator accepts signals from its external sweep input connector on the rear panel.																				
11	<b>SYMMETRY Button</b>	Pushing in this button divides the frequency of the output signal by 10 and allows the symmetry of the signal to be varied using the SYMMETRY knob																				
12	<b>VOLTS OUT Button</b>	Push in for AMPLITUDE control range of 0 to 2 Vpp or 0 to 1 Vpp into a 50Ω load. Push out for AMPLITUDE control range of 0 to 20 Vpp or 0 to 10 Vpp to a 50Ω load.																				
13	<b>SYNC (TTL) OUTPUT</b>	BNC output connector for TTL signals																				
14	<b>MAIN OUTPUT</b>	BNC output connector for sine, square and sawtooth wave signals																				
15	<b>POWER Button</b>	To switch on/off the function generator																				