

## Plug-in Collection

Panasonic has a broad line of high-efficiency 2-pin and 4-pin CFLs. These T4/T5 tri-phosphor plug-ins range in power from 13 to 32 watts and in color temperature from 2700K to 5000K. Additionally, Panasonic has a unique line of Quick-Start CFLs for 2-pin applications, featuring an advanced chip and 1-second start time with magnetic ballasts.

---

### T4 Quick Start Quad-Tube (2-pin)

### T4 Quick Start Twin-Tube (2-pin)

### T4 Quad-Tube (4-pin)

### T4 Circle-6 (4-pin)

- 10,000-hour rated long life
- Consumes 70% less energy than incandescents
- 2-pin design for magnetic ballasts
- 4-pin design for electronic ballasts
- 82-84 CRI
- 1-second start time (Quick-Start 2-pin only)
- Certain residential fixtures with magnetic ballasts may meet ENERGY STAR® guidelines when fitted with Quick-Start 2-pin CFLs

### Suggested Applications:

Hard-Wired Fluorescent Fixtures, Fluorescent Adaptors, Task Lighting, Wall Sconces

---

### T5 Quad-Tube (2-pin)

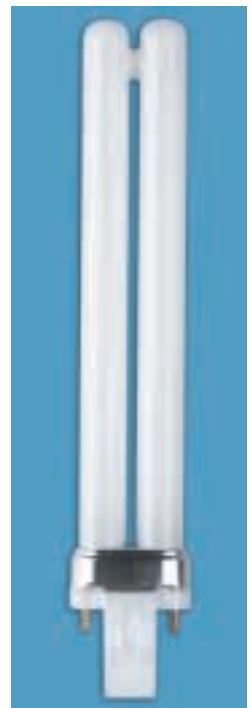
### T5 Quad-Tube (4-pin)

### T5 Linear (4-pin)

- 10,000-hour rated long life
- Consumes 70% less energy than incandescents
- 2-pin design for magnetic ballasts
- 4-pin design for electronic ballasts
- 84 CRI

### Suggested Applications:

Hard-Wired Fluorescent Fixtures, Fluorescent Adaptors, Task Lighting, Wall Sconces



## T4 Quick-Start Quad-Tube (2-pin) Specifications

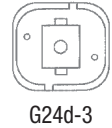
Model No.	Shape	Rated Volts (V)	Rated Watts (W)	Lumens	Rated Life	Color Temp. (K)	Base	Pins	Lamp Current	CRI	Ballast
FQ13E27.U/2	Quad	120	13	810	10,000	2,700	GX23-2	2	0.285	84	Magnetic
FQ13E41.U/2	Quad	120	13	810	10,000	3,500	GX23-2	2	0.285	84	Magnetic
FQ13E35.U/2	Quad	120	13	810	10,000	4,100	GX23-2	2	0.285	84	Magnetic
FQ26E27/2	Quad	120	26	1,800	10,000	2,700	G24d-3	2	0.325	84	Magnetic
FQ26E35/2	Quad	120	26	1,800	10,000	3,500	G24d-3	2	0.325	84	Magnetic
FQ26E41/2	Quad	120	26	1,800	10,000	4,100	G24d-3	2	0.325	84	Magnetic

1-3/8"  
SQUARE



GX23-2

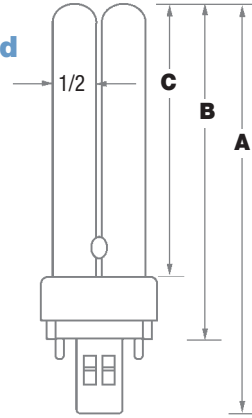
1-3/8"  
SQUARE



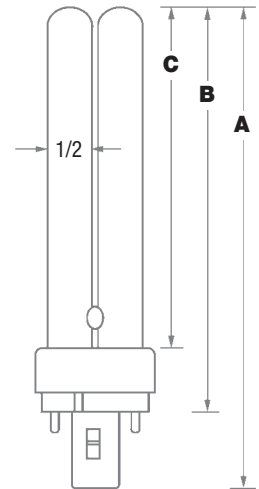
G24d-3

## T4 Quick-Start Quad-Tube (2-pin) Specifications cont'd

Model No.	Dimensions A (in.)	Dimensions B (in.)	Dimensions C (in.)	Case Qty.
FQ13E27.U/2	4-11/16	3-25/32	3-3/16	40
FQ13E41.U/2	4-11/16	3-25/32	3-3/16	40
FQ13E35.U/2	4-11/16	3-25/32	3-3/16	40
FQ26E27/2	6-11/16	5-25/32	5-3/32	40
FQ26E35/2	6-11/16	5-25/32	5-3/32	40
FQ26E41/2	6-11/16	5-25/32	5-3/32	40



FQ13.U (ANSI)



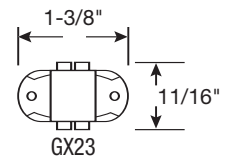
FQ26

## T4 Quick Start Twin-Tube (2-pin) Specifications

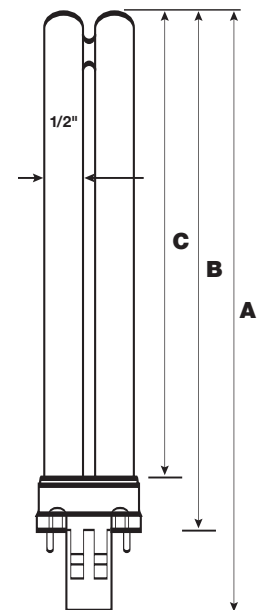
Model No.	Shape	Rated Volts (V)	Rated Watts (W)	Lumens	Rated Life	Color Temp. (K)	Base	Pins	Lamp Current	CRI	Ballast
FQS13E27U2	Twin	120	13	810	10,000	2700	GX23	2	0.285	82	Magnetic

## T4 Quick Start Twin-Tube (2-pin) Specifications cont'd

Model No.	Dimensions A (in.)	Dimensions B (in.)	Dimensions C (in.)	Case Qty.
FQS13E27U2	7-1/16	6-5/32	5-1/2	60



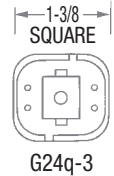
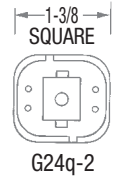
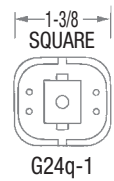
GX23



FQS13E27U2

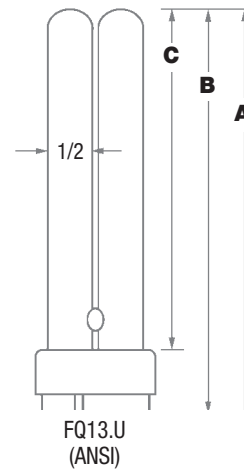
## T4 Quad Tube (4-Pin) Specifications

Model No.	Shape	Rated Volts (V)	Rated Watts (W)	Lumens	Rated Life	Color Temp. (K)	Base	Pins	Lamp Current	CRI	Ballast
FDS13E27/4	Quad	120	13	900	10,000	2,700	G24q-1	4	0.175	84	Electronic
FDS13E35/4	Quad	120	13	900	10,000	3,500	G24q-1	4	0.175	84	Electronic
FDS13E41/4	Quad	120	13	900	10,000	4,100	G24q-1	4	0.175	84	Electronic
FDS18E27/4	Quad	120	18	1200	10,000	2,700	G24q-2	4	0.220	84	Electronic
FDS18E35/4	Quad	120	18	1200	10,000	3,500	G24q-2	4	0.220	84	Electronic
FDS18E41/4	Quad	120	18	1200	10,000	4,100	G24q-2	4	0.220	84	Electronic
FDS26E27/4	Quad	120	26	1800	10,000	2,700	G24q-3	4	0.325	84	Electronic
FDS26E35/4	Quad	120	26	1800	10,000	3,500	G24q-3	4	0.325	84	Electronic
FDS26E41/4	Quad	120	26	1800	10,000	4,100	G24q-3	4	0.325	84	Electronic



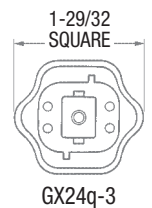
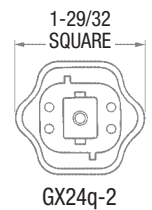
## T4 Quad Tube (4-Pin) Specifications cont'd

Model No.	Dimensions A (in.)	Dimensions B (in.)	Dimensions C (in.)	Case Qty.
FDS13E27/4	5-3/16	4-19/32	3-29/32	40
FDS13E35/4	5-3/16	4-19/32	3-29/32	40
FDS13E41/4	5-3/16	4-19/32	3-29/32	40
FDS18E27/4	5-23/32	5-1/8	4-13/32	40
FDS18E35/4	5-23/32	5-1/8	4-13/32	40
FDS18E41/4	5-23/32	5-1/8	4-13/32	40
FDS26E27/4	6-13/32	5-13/16	5-1/8	40
FDS26E35/4	6-13/32	5-13/16	5-1/8	40
FDS26E41/4	6-13/32	5-13/16	5-1/8	40



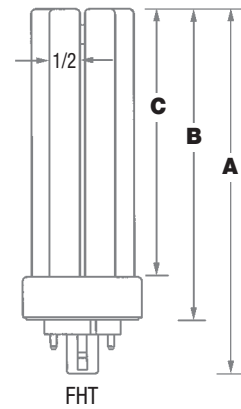
## T4 Circle-6 (4-Pin) Specifications

Model No.	Shape	Rated Volts (V)	Rated Watts (W)	Lumens	Rated Life	Color Temp. (K)	Base	Pins	Lamp Current	CRI	Ballast
FHT18E27	Circle-6	120	16	1,200	10,000	2,700	GX24q-2	4	0.21	84	Electronic
FHT18E35	Circle-6	120	16	1,200	10,000	3,500	GX24q-2	4	0.21	84	Electronic
FHT18E41	Circle-6	120	16	1,200	10,000	4,100	GX24q-2	4	0.21	84	Electronic
FHT26E27	Circle-6	120	24	1,800	10,000	2,700	GX24q-3	4	0.3	84	Electronic
FHT26E35	Circle-6	120	24	1,800	10,000	3,500	GX24q-3	4	0.3	84	Electronic
FHT26E41	Circle-6	120	24	1,800	10,000	4,100	GX24q-3	4	0.3	84	Electronic
FHT32E27	Circle-6	120	32	2,400	10,000	2,700	GX24q-3	4	0.32	84	Electronic
FHT32E35	Circle-6	120	32	2,400	10,000	3,500	GX24q-3	4	0.32	84	Electronic
FHT32E41	Circle-6	120	32	2,400	10,000	4,100	GX24q-3	4	0.32	84	Electronic



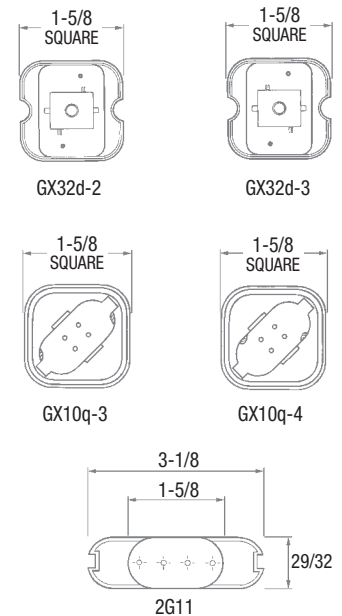
## T4 Circle-6 (4-Pin) Specifications cont'd

Model No.	Dimensions A (in.)	Dimensions B (in.)	Dimensions C (in.)	Case Qty.
FHT18E27	4-1/2	3-7/8	2-15/16	10
FHT18E35	4-1/2	3-7/8	2-15/16	10
FHT18E41	4-1/2	3-7/8	2-15/16	10
FHT26E27	5-1/16	4-7/16	3-17/32	10
FHT26E35	5-1/16	4-7/16	3-17/32	10
FHT26E41	5-1/16	4-7/16	3-17/32	10
FHT32E27	5-23/32	5-3/32	4-3/16	10
FHT32E35	5-23/32	5-3/32	4-3/16	10
FHT32E41	5-23/32	5-3/32	4-3/16	10



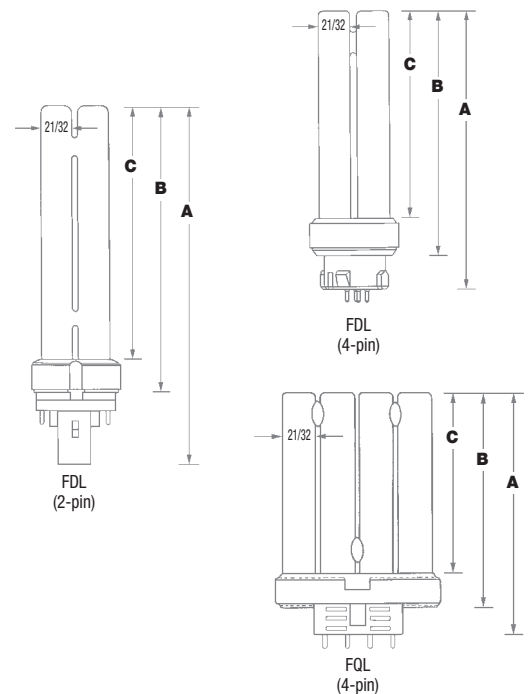
## T5 Specifications

Model No.	Shape	Rated Volts (V)	Rated Watts (W)	Lumens	Rated Life	Color Temp. (K)	Base	Pins	Lamp Current	CRI	Ballast
<b>T5 Quad-Tube (2-Pin) Specifications</b>											
FDL22LE/D	Quad	120	22	1,200	10,000	2,800	GX32d-2	2	0.45	84	Magnetic
FDL22EX/D	Quad	120	22	1,200	10,000	5,000	GX32d-2	2	0.45	84	Magnetic
FDL28LE/D	Quad	120	28	1,600	10,000	2,800	GX32d-3	2	0.60	84	Magnetic
FDL28EX/D	Quad	120	28	1,600	10,000	5,000	GX32d-3	2	0.60	84	Magnetic
<b>T5 Quad-Tube (4-Pin) Specifications</b>											
FDL18LE	Quad	120	18	1,070	10,000	2,800	GX10q-3	4	0.375	84	Electric
FDL27LE	Quad	120	27	1,550	10,000	2,800	GX10q-4	4	0.620	84	Electric
<b>T5 Linear (4-Pin) Specifications</b>											
FQL28LE	Linear	120	28	1,600	10,000	2,800	2G11	4	0.60	84	Electric
FQL28EX	Linear	120	28	1,600	10,000	2,800	2G11	4	0.60	84	Electric



## T5 Specifications cont'd

Model No.	Dimensions A (in.)	Dimensions B (in.)	Dimensions C (in.)	Case Qty.
<b>T5 Quad-Tube (2-Pin) Specifications</b>				
FDL22LE/D	6-1/16	5-1/16	4-3/32	50
FDL22EX/D	6-1/16	5-1/16	4-3/32	50
FDL28LE/D	6-17/32	5-17/32	4-9/16	50
FDL28EX/D	6-17/32	5-17/32	4-9/16	50
<b>T5 Quad-Tube (4-Pin) Specifications</b>				
FDL18LE	5	4-9/16	3-25/32	50
FDL27LE	5-9/16	4-31/32	3-25/32	50
<b>T5 Linear (4-Pin) Specifications</b>				
FQL28LE	5-3/4	5-1/4	4-9/16	50
FQL28EX	5-3/4	5-1/4	4-9/16	50



Incandescent Bulb	<b>Cost of Light Bulbs:</b>			<b>Cost for Electricity:</b>								
	<input type="text"/>	X 10 =	<input type="text"/>	<input type="text"/>	X (	<input type="text"/>	/	<input type="text"/>	) X	<input type="text"/>	=	<input type="text"/>
	cost/bulb	# of bulbs needed for 10,000* hours	<b>fig. 1</b>	wattage of bulb**	# of hours used	watts/kwh	cost/kwh***	<b>fig. 2</b>				
Equivalent Compact Fluorescent Lamp	<b>Cost of Light Bulbs:</b>			<b>Cost for Electricity:</b>								
	<input type="text"/>	X 1 =	<input type="text"/>	<input type="text"/>	X (	<input type="text"/>	/	<input type="text"/>	) X	<input type="text"/>	=	<input type="text"/>
	cost/bulb	# of bulbs needed for 10,000* hours	<b>fig. 3</b>	wattage of bulb**	# of hours used	watts/kwh	cost/kwh***	<b>fig. 4</b>				

**Savings Calculation**

	-		=	
Total Incandescent Cost		Total CFL Cost		Total Savings
<b>Fig. 1 + Fig. 2</b>		<b>Fig. 3 + Fig. 4</b>		

\* Rated lamp life varies among CFLs. Please see product charts for details.  
 \*\* For accurate results, a comparable incandescent bulb and CFL must be used. Please see our product charts for the equivalent incandescent wattages for our CFLs.  
 \*\*\* If you don't know the exact cost that you pay, the national average cost of electricity is about \$0.10/kwh.