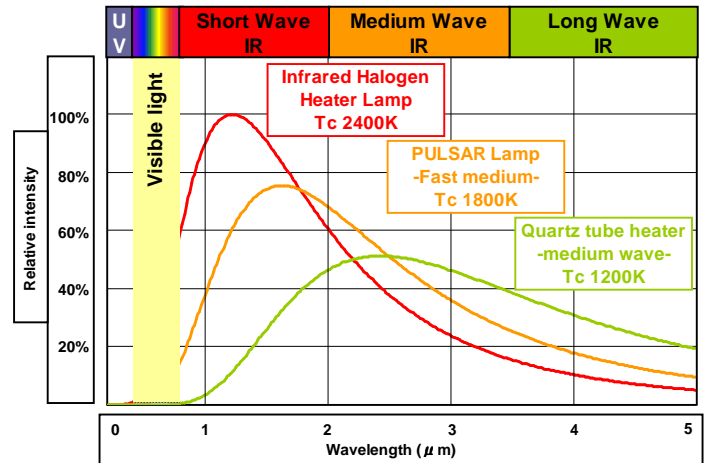


### Infrared Halogen Heater Lamp



TOSHIBA infrared halogen heater lamps are powerful heat sources comprising a finely coiled tungsten filament surrounded by high-purity tubular quartz glass and a kind of halogen gas-filled lamp. Halogen cycle ensures constant infrared efficiency all the lifetime with preventing the quartz glass tube from blackening. TOSHIBA infrared halogen heater lamps match numerous kinds of industrial process with benefits of instant & contact-less heat, clean, odorless, compact, high-power, and long-life.

#### Benefits and features

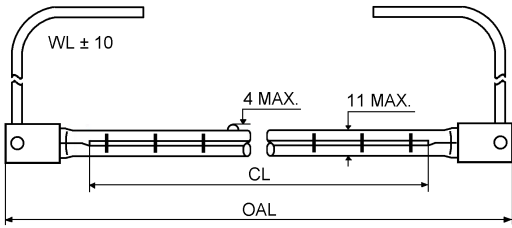
- Long life: 5000h on average.
- High speed: within a second to switch on.
- High efficiency: more than 85% heat efficiency of full power
- High power density: up to 110 W / cm
- High controllability: neither ballast nor special circuits are necessary for basic usage.
- No air draughts: because of radiation (like solar energy)
- Clean and odorless: no risk of contamination over environment or target object to be heated.
- Extensive assortment: many types of voltage, wattage, length, base, cables, universal burning position is available.
- Flexible: special lamp designing service on demand is available.

#### Application area

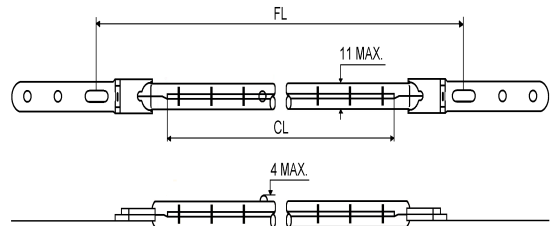
- Paint drying
- Pre-heating of PET perform
- Silicon wafer manufacturing process in Semiconductor
- Drying process in paper mill
- Plastics thermoforming
- Fusing printing ink
- And various kind of drying processes



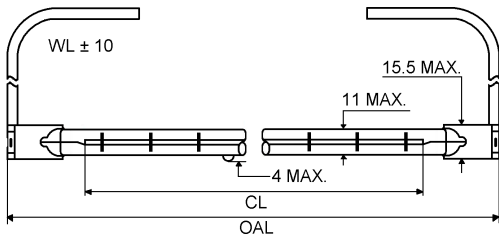
**Type B/Bf**



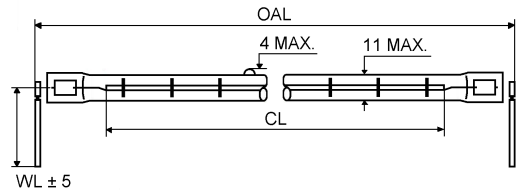
**Type J**



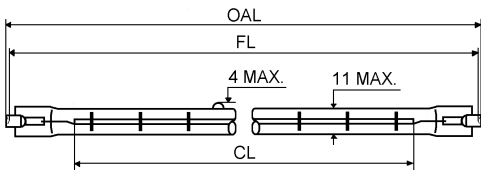
**Type Jc**



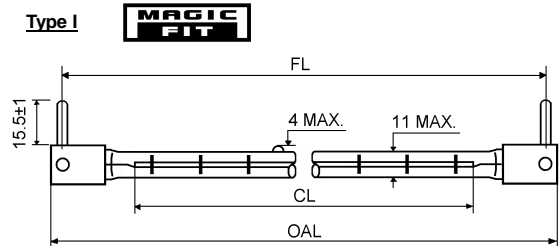
**Type T**



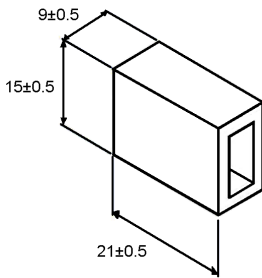
**Type R7s**



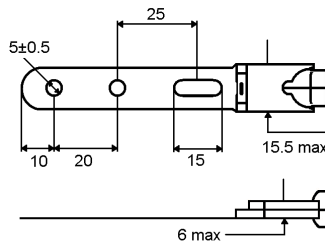
**Type I**



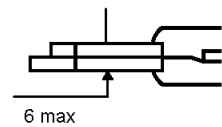
**Base dimensions for Type B/Bf and I**



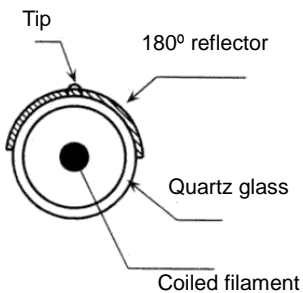
**Metal clip dimension for Type J**



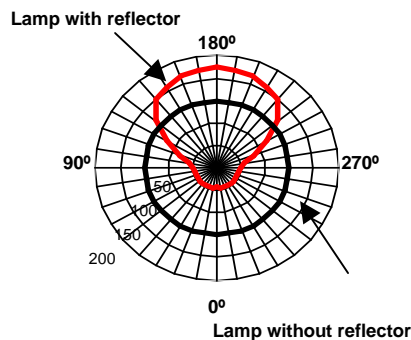
**Thickness of Metal sleeve for Type Jc**



**Cross-section of lamp with reflector**



**Efficiency of reflector**



### New Wireless Solution



Part code	Watts (W)	Volts (V)	Base Type	Overall length OAL (mm)	Fixation length FL (mm)	Heating length CL (mm)	Wire Length WL(mm)	Terminal	Color temp. (K)	Tube	Burning position	Ave. Life	Ordering code
<b>300 WATTS</b>													
JHS 230V 300W 60 RsH1-P	300	220 - 240	Rs	(117.6)	114. 2±1.6	60 ± 5	-	-	2450	Clear	Horizontal	5000	2JHS150
JHS 230V 300W 60 IH	300	220 - 240	I	(120)	112 ± 1	60 ± 5	-	-	2450	Clear	Horizontal	5000	2JHS184
JHC 240V 300W 165 BfH	300	230 - 240	Bf	226 ± 2	-	165 ± 5	220 ± 10	Fork	2400	Reflector	Horizontal	5000	2JHC187
<b>500 WATTS</b>													
JHS 235V 500W 165 BfH	500	230 - 240	Bf	226 ± 2	-	165 ± 5	220 ± 10	Fork	2500	Clear	Horizontal	5000	2JHS229
JHC 235V 500W 165 BfH1	500	230 - 240	Bf	226 ± 2	-	165 ± 5	200 ± 10	Fork	2500	Reflector	Horizontal	5000	2JHC113
<b>700 WATTS</b>													
JHS 240V 700W 150 BfH1	700	230 - 240	Bf	210 ± 2	-	150 ± 5	230 ± 10	Splice	2620	Clear	Horizontal	5000	2JHS090
JHC 240V 700W 150 BfH1	700	230 - 240	Bf	210 ± 2	-	150 ± 5	230 ± 10	Splice	2620	Reflector	Horizontal	5000	2JHC150
<b>1000 WATTS</b>													
JHC 235V 1000W 272 BfH	1000	230 - 240	Bf	352 ± 2	-	272 ± 5	220 ± 10	Fork	2400	Reflector	Horizontal	5000	2JHC105
JHC 235V 1000W 272 BfU	1000	230 - 240	Bf	352 ± 2	-	272 ± 5	200 ± 10	Fork	2400	Reflector	Universal	5000	2JHC015
JHS 235V 1000W 272 JU	1000	230 - 240	J	-	370 ± 10	272 ± 5	-	-	2400	Clear	Universal	5000	2JHS056
JHC 235V 1000W 272 JH	1000	230 - 240	J	-	370 ± 10	272 ± 5	-	-	2400	Reflector	Horizontal	5000	2JHC008
JHC 235V 1000W 272 IH	1000	230 - 240	I	(354)	346 ± 1	272 ± 5	-	-	2650	Reflector	Horizontal	5000	2JHC102
JHC 400V 1000W 272 IU	1000	400	I	(354)	346 ± 1	272 ± 5	-	-	2550	Reflector	Universal	5000	2JHC122
<b>1200 WATTS</b>													
JHC 144V 1200W 155 JcH	1200	144	Jc	219 ± 3	-	155 ± 5	160 ± 10	Fork	2700	Reflector	Horizontal	5000	2JHC068
JHC 144V 1200W 155 BfH	1200	144	Bf	225 ± 2	-	155 ± 5	150 ± 10	Fork	2700	Reflector	Horizontal	5000	2JHC034
JHC 235V 1200W 155 BfH1	1200	230 - 240	Bf	225 ± 2	-	155 ± 5	150 ± 10	Fork	2700	Reflector	Horizontal	5000	2JHC067
JHC 240V 1200W 406 BfH	1200	230 - 240	Bf	499 ± 2	-	406 ± 5	230 ± 10	Splice	2400	Reflector	Horizontal	5000	2JHC107
JHC 240V 1200W 406 BfU	1200	230 - 240	Bf	499 ± 2	-	406 ± 5	230 ± 10	Splice	2400	Reflector	Universal	5000	2JHC111
<b>1500 WATTS</b>													
JHS 235V 1500W 280 BfH1	1500	230 - 240	Bf	352 ± 2	-	280 ± 5	300 ± 10	Splice	2400	Clear	Horizontal	5000	2JHS173
JHC 235V 1500W 280 BfH	1500	230 - 240	Bf	350+1,-2	-	280 ± 5	230 ± 10	Faston	2400	Reflector	Horizontal	5000	2JHC081
JHS 235V 1500W 385 RsH	1500	230 - 240	Rs	(446)	444 ± 1.5	385 ± 5	-	-	2400	Clear	Horizontal	5000	2JHS237
<b>1600 WATTS</b>													
JHC 144V 1600W 155 JcH	1600	144	Jc	219 ± 3	-	155 ± 5	160 ± 10	Fork	2700	Reflector	Horizontal	5000	2JHC060
JHC 144V 1600W 155 BfH	1600	144	Bf	225 ± 2	-	155 ± 5	150 ± 10	Fork	2700	Reflector	Horizontal	5000	2JHC035
JHC 235V 1600W 155 BfH1	1600	230 - 240	Bf	225 ± 2	-	155 ± 5	150 ± 10	Fork	2700	Reflector	Horizontal	5000	2JHC066
JHC 240V 1600W 406 BfH1	1600	230 - 240	Bf	485 ± 2	-	406 ± 5	200 ± 10	Fork	2500	Reflector	Horizontal	5000	EM-805
<b>2000 WATTS</b>													
JHC 235V 2000W 280 BfH	2000	230 - 240	Bf	353 ± 2	-	280 ± 5	230 ± 10	Splice	2400	Reflector	Horizontal	5000	2JHC026
JHC 235V 2000W 280 BfH2	2000	230 - 240	Bf	353 ± 2	-	280 ± 5	210 ± 10	Fork	2400	Reflector	Horizontal	5000	2JHC076
JHC 235V 2000W 280 BfU	2000	230 - 240	Bf	352 ± 2	-	280 ± 5	200 ± 10	Fork	2400	Reflector	Universal	5000	2JHC016
JHC 235V 2000W 280 BfU4	2000	230 - 240	Bf	353 ± 2	-	280 ± 5	230 ± 10	Splice	2400	Reflector	Universal	5000	2JHC104
JHS 235V 2000W 280 BfU1	2000	230 - 240	Bf	353 ± 2	-	280 ± 5	230 ± 10	Splice	2400	Clear	Universal	5000	2JHS141
JHS 235V 2000W 280 JU	2000	230 - 240	J	-	370 ± 10	280 ± 5	-	-	2400	Clear	Universal	5000	2JHS031
JHC 235V 2000W 280 JU	2000	230 - 240	J	-	370 ± 10	280 ± 5	-	-	2425	Reflector	Universal	5000	2JHC194
JHS 235V 2000W 280 TU3	2000	230 - 240	T	350 max.	-	280 ± 5	120 ± 5	Ring	2400	Clear	Universal	5000	2JHS061
JHS 400V 2000W 280 BfU1	2000	400	Bf	354 ± 2	-	280 ± 5	300 ± 10	Splice	2350	Clear	Universal	5000	2JHS232
JHS 400V 2000W 280 JU	2000	400	J	-	370 ± 10	280 ± 5	-	-	2400	Clear	Universal	5000	2JHS030
JHC 400V 2000W 280 IU	2000	400	I	(354)	346 ± 1	280 ± 5	-	-	2700	Reflector	Universal	5000	2JHC123
JHC 235V 2000W 410 JH	2000	230 - 240	J	-	508 ± 10	410 ± 5	-	-	2400	Reflector	Horizontal	5000	2JHC040
JHS 235V 2000W 410 JH	2000	230 - 240	J	-	508 ± 10	410 ± 5	-	-	2400	Clear	Horizontal	5000	2JHS085
JHC 400V 2000W 410 BfU	2000	400	Bf	490 ± 2	-	410 ± 5	230 ± 10	Splice	2400	Reflector	Universal	5000	2JHC061
JHC 400V 2000W 410 JU	2000	400	J	-	508 ± 10	410 ± 5	-	-	2400	Reflector	Universal	5000	EM-206
JHC 400V 2000W 410 JH	2000	400	J	-	508 ± 10	410 ± 5	-	-	2400	Reflector	Horizontal	5000	2JHC155
JHS 400V 2000W 410 JU	2000	400	J	-	508 ± 10	410 ± 5	-	-	2400	Clear	Universal	5000	2JHS032
JHC 230V 2000W 500 BfH	2000	230 - 240	Bf	650 ± 2	-	500 ± 5	500 ± 10	Splice	2400	Reflector	Horizontal	5000	2JHC116
JHC 235V 2000W 700 BfH	2000	230 - 240	Bf	787 ± 2	-	700 ± 5	500 ± 10	Splice	2240	Reflector	Horizontal	5000	2JHC189

Part code	Watts (W)	Volts (V)	Base Type	Overall length OAL (mm)	Fixation length FL (mm)	Heating length CL (mm)	Wire Length WL(mm)	Terminal	Color temp. (K)	Tube	Burning position	Ave. Life	Ordering code
<b>2200 WATTS</b>													
JHS 235V 2200W 280 BfU1	2200	230 - 240	Bf	350 ± 2	-	280 ± 5	150 ± 5	Splice	2450	Clear	Universal	5000	2JHS160
JHS 235V 2200W 280 TU2	2200	230 - 240	T	345 ± 1.5	-	280 ± 5	145 ± 5	Ring	2300	Clear	Universal	5000	2JHS234
<b>2500 WATTS</b>													
JHC 235V 2500W 280 BfH3	2500	230 - 240	Bf	353 ± 2	-	280 ± 5	210 ± 10	Fork	2700	Reflector	Horizontal	5000	2JHC095
JHC 235V 2500W 280 BfU	2500	230 - 240	Bf	352 ± 2	-	280 ± 5	200 ± 10	Fork	2700	Reflector	Universal	5000	2JHC045
JHC 400V 2500W 280 BH	2500	400	B	355 ± 2	-	280 ± 5	210 ± 10	Fork	2700	Reflector	Horizontal	5000	2JHC096
JHC 400V 2500W 315 BH	2500	400	B	378 ± 2	-	315 ± 5	230 ± 10	Splice	2500	Reflector	Horizontal	5000	2JHC036
JHS 480V 2500W 635 JcH	2500	480	Jc	723 ± 3	-	635 ± 5	150 ± 10	Splice	2500	Clear	Horizontal	5000	EM-818
<b>3000 WATTS</b>													
JHC 235V 3000W 280 BfU	3000	230 - 240	Bf	352 ± 2	-	280 ± 5	210 ± 10	Fork	2700	Reflector	Universal	5000	2JHC046
*JHS 235V 3000W 280 JU	3000	230 - 240	J	-	370 ± 10	280 ± 5	-	-	2200	Clear	Universal	5000	2JHS060
JHC 235V 3000W 280 JU	3000	230 - 240	J	-	370 ± 10	280 ± 5	-	-	2500	Reflector	Universal	5000	EM-427
*JHS 235V 3000W 280 TU1	3000	230 - 240	T	350 max.	-	280 ± 5	120 ± 5	Splice	2200	Clear	Universal	5000	2JHS062
JHC 400V 3000W 280 BH	3000	400	B	355 ± 2	-	280 ± 5	210 ± 10	Fork	2700	Reflector	Horizontal	5000	2JHC097
JHS 400V 3000W 280 IU	3000	400	I	(354)	346 ± 1	280 ± 5	-	-	2600	Clear	Universal	5000	EM-1055
JHC 400V 3000W 280 IU	3000	400	I	(354)	346 ± 1	280 ± 5	-	-	2600	Reflector	Universal	5000	2JHC165
JHS 400V 3000W 280 JU	3000	400	J	-	370 ± 10	280 ± 5	-	-	2600	Clear	Universal	5000	2JHS053
JHS 400V 3000W 280 TU1	3000	400	T	350 max.	-	280 ± 5	120 ± 10	Ring	2550	Clear	Universal	5000	2JHS059
JHC 400V 3000W 315 BH	3000	400	B	378 ± 2	-	315 ± 5	230 ± 5	Splice	2550	Reflector	Horizontal	5000	2JHC037
JHS 400V 3000W 410 JU	3000	400	J	-	508 ± 10	410 ± 5	-	-	2400	Clear	Universal	5000	2JHS072
JHC 235V 3000W 700 BfH2	3000	230 - 240	Bf	787.5 ± 2	-	700 ± 5	500 ± 10	Splice	2300	Reflector	Horizontal	5000	2JHC087
JHC 400V 3000W 700 BfH1	3000	400	Bf	784 ± 2	-	700 ± 5	200 ± 10	Fork	2350	Reflector	Horizontal	5000	2JHC142
JHS 400V 3000W 700 IU	3000	400	I	(779)	771 ± 1	700 ± 5	-	-	2400	Clear	Universal	5000	2JHS142
JHC 400V 3000W 700 IU	3000	400	I	(779)	771 ± 1	700 ± 5	-	-	2350	Reflector	Universal	5000	2JHC149
JHS 400V 3000W 700 JU	3000	400	J	-	798 ± 10	700 ± 5	-	-	2400	Clear	Universal	5000	2JHS058
JHC 400V 3000W 700 JU	3000	400	J	-	798 ± 10	700 ± 5	-	-	2400	Reflector	Universal	5000	2JHC085
<b>4000 WATTS</b>													
JHC 400V 4000W 700 IU	4000	400	I	(782)	774 ± 1	700 ± 5	-	-	2425	Reflector	Universal	5000	EM-1158
JHC 400V 4000W 700 BfH	4000	400	Bf	787.5 ± 2	-	700 ± 5	150 ± 10	Ring	2400	Reflector	Horizontal	5000	2JHC052
<b>4600 WATTS</b>													
JHS 400V 4600W 236 TH	4600	400	T	303 max.	-	236 ± 5	155 ± 5	Splice	3000	Clear	Horizontal	1000	2JHS075
JHS 480V 4600W 236 TH	4600	480	T	290 max.	-	236 ± 5	155 ± 5	Splice	3000	Clear	Horizontal	1000	2JHS079
<b>6000 WATTS</b>													
JHS 480V 6000W 245 TH	6000	480	T	298 max.	-	245 ± 5	41 ± 3	Ring	3050	Clear	Horizontal	1000	2JHS220
JHS 480V 6000W 290 TH1	6000	480	T	350 max.	-	290 ± 5	35 ± 5	Ring	3025	Clear	Horizontal	1000	2JHS226
JHC 400V 6000W 1000 BfH1	6000	480	Bf	1125 ± 2	-	1000 ± 5	500 ± 10	Stripped	2700	Reflector	Horizontal	1000	2JHC168

\*Tube diameter is 13mm max.