

SLIM-LINE BLOWERS

Wakefield Thermal's unique slim and powerful DC blowers are perfect for ultra-thin cooling applications, where cooling is a must. The Slim-Line blower features an ultra-thin blade design resulting in excellent performance & sound quality.





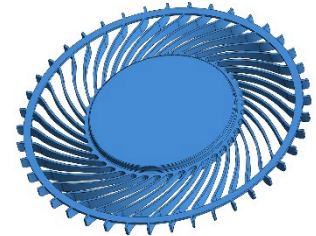
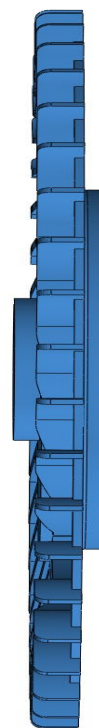
The Slim-Line Blower three-phase motor design provides exceptional balancing characteristics and low power consumption. Designed for tablets, notebooks, automotive, gaming monitors, all in one PC's, or any other low-profile application, these powerful, ultra-thin, direct-diverting blowers can be as thin as 3.2mm

Options:

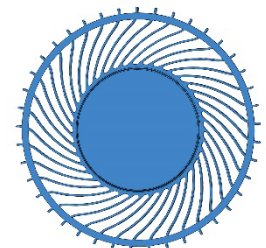
- IP-55 water protection rating
- Pulse width modulation control (PWM)
- Frequency generator output (FG signal/tach)
- Custom sizes and performances

Features & Benefits:

- Sizes include:
 - Ultra Thin- as low as 3mm up to 10mm
 - Various Footprints
 - Custom sizes available Upon Request
- Operating temperature- -10°C to +70°C
- Long life- Rated 50,000 hours @ 40 °C
- Fluid Bearing (AFB)
- Three-phase motor
- Optimized blade design
- Ultra-quiet (as low as 21db)
- Suitable for automotive applications



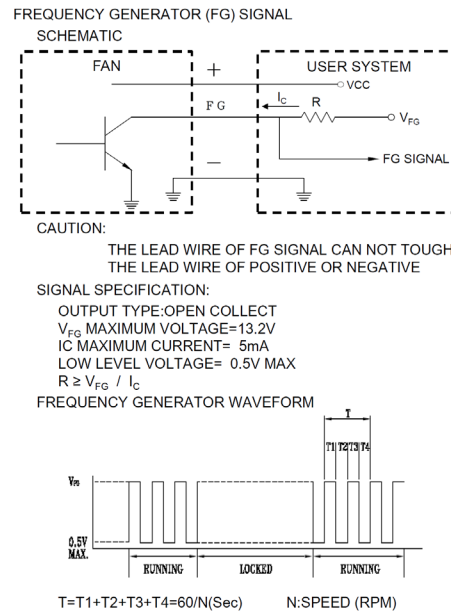
Optimized Blade Design



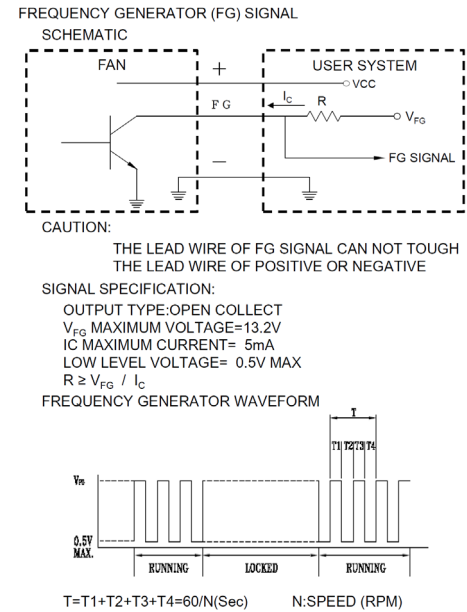
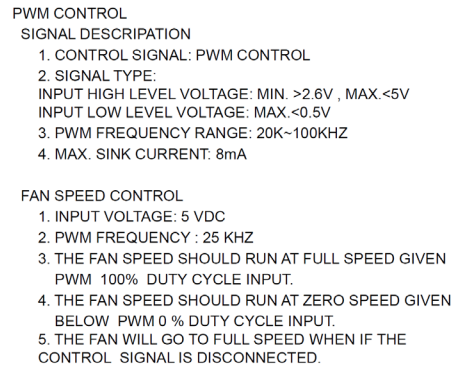
WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Airflow (CFM)	Static Pressure (mm)	Noise (dBA)	Power (W)	Speed (RPM)	Termination
DB1703	17x17x3.2	ULTRA THIN DC BLOWER 17X17X3.2MM 3V .204CFM	3	0.20	3.78	27	0.12	12000	3 Wire, No Connector
DB2003	20x20x3.2	ULTRA THIN DC BLOWER 20X20X3.2MM 3V .34CFM	3	0.34	4.66	27	0.24	11000	3 Wire, No Connector
DB03003	30x30x3.2	ULTRA THIN DC BLOWER 30X30X3.2MM 5V .69CFM PWM	5	0.70	8.37	34	0.75	9500	4 Wire, PWM No Connector
DB03004	30x30x4.0	ULTRA THIN DC BLOWER 30X30X4MM 5V .76CFM	5	0.76	8.80	31	0.50	9500	2 Wire, No Connector
DB03010	30x30x10	ULTRA THIN DC BLOWER 30X30X10MM 5V 1.09CFM	5	1.09	5.61	28	1.10	7000	2 Wire, No Connector
DB05505	55x50x5.25	ULTRA THIN DC BLOWER 55X55X5.25MM 5V 1.27CFM	5	1.27	3.79	21	0.70	3100	2 Wire, No Connector
DB05905	59.3x55.6x5.6	ULTRA THIN DC BLOWER 59.3X55.6X5.6MM 5V 3.25CFM	5	3.25	17.08	41	1.90	6700	4 Wire, PWM No Connector
DB06304	63x63x4	ULTRA THIN DC BLOWER 63X63X4MM 5V 2.15CFM	5	2.15	12.84	35	1.75	5700	4 Wire, PWM No Connector
DB06205	61.8x57.3x5.6	ULTRA THIN DC BLOWER 61.8X57.3X5.6MM 5V 2.68CFM	5	2.68	19.90	43	1.90	7400	4 Wire, PWM No Connector
DB08705	87x74.5x5	ULTRA THIN DC BLOWER 87X74.5X5MM 5V 4.63CFM	5	4.63	14.52	41	2.25	4500	4 Wire, PWM No Connector
DB08706	87x74.5x5.5	ULTRA THIN DC BLOWER 87X74.5X5.52MM 5V 5.70CFM	5	5.70	15.87	42	2.25	4600	4 Wire, PWM No Connector

Tach/PWM Configurations

• 3 – Tach



• B – PWM + Tach



DB1703

WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB170303H1A-3T0	17x17x3.2	ULTRA THIN DC BLOWER 17X17X3.2MM 3V .204CFM	3	0.20	3.78	26.6	0.12	12000	3 Wire, No Connector	1.5

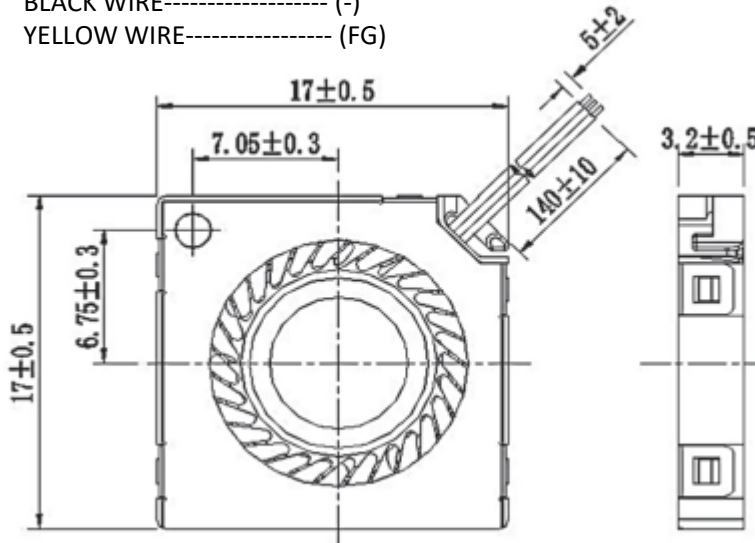
Description: DC Fan with:

Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

BLACK WIRE----- (-)

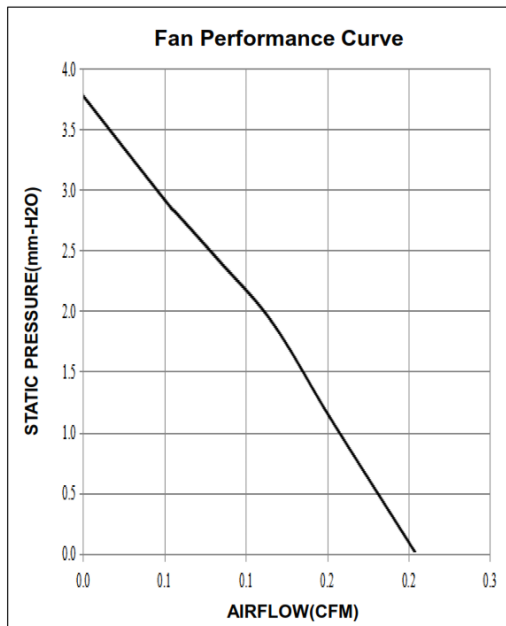
YELLOW WIRE----- (FG)



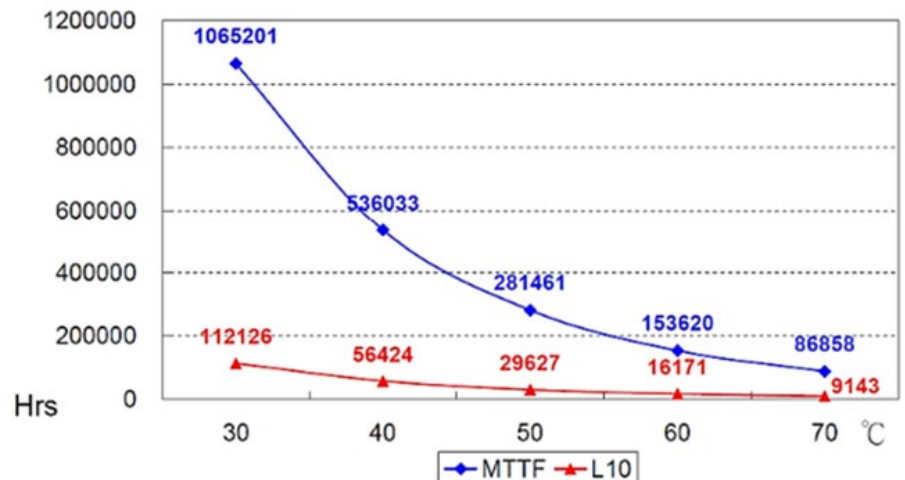
FEATURES

☒ V	FG SIGNAL	☐	IP-55 RATED
☐	RD SIGNAL	☐	HIGH TEMP RATED
☐	PWM		

DIMENSIONS	: 17 X 17 X 3.2 mm
BEARING TYPE	: AFB
MOTOR PROTECTION	: BY IC
RATED VOLTAGE	: 3.0 VDC
OPERATING VOLTAGE RANGE	: 2.2 ~ 3.5 VDC
START-UP VOLTAGE	: 2.2 VDC, POWER ON/OFF
REAL CURRENT	: 0.04 Amp
REAL POWER	: 0.12 Watt
RATED CURRENT	: 0.06 Amp +10% MAX
RATED POWER	: 0.18 Watt
RATED SPEED	: 12000 RPM ± 15 %
	(IN FREE AIR AT RATED VOLTAGE)
AIR FLOW	: 0.204 CFM (min.: 0.173 CFM)
AIR FLOW	: 0.005 CMM (min.: 0.004 CMM)
	(IN FREE AIR AT RATED VOLTAGE)
STATIC AIR PRESSURE	: 0.148 InH ₂ O (min.: 0.106 InH ₂ O)
STATIC AIR PRESSURE	: 3.78 mmH ₂ O (min.: 2.731 mmH ₂ O)
	(IN FREE AIR AT RATED VOLTAGE)
NOISE LEVEL (0.3M)	: 26.6 dB(A) (MAX.: 29.6 dB(A))
LIFE EXPECTANCY	: 50000 Hours at 40°C / 65% RH
NET WEIGHT	: 1.5 Gram



MTTF & L10 Curve



DB2003

WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB200303H1A-3T0	20x20x3.2	ULTRA THIN DC BLOWER 20X20X3.2MM 3V .34CFM	3	0.34	4.66	26.9	0.24	11000	3 Wire, No Connector	1.5

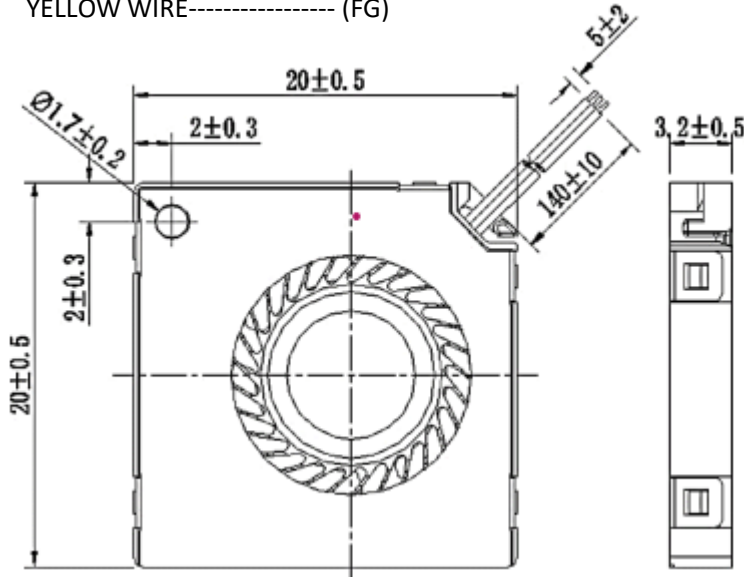
Description: DC Fan with:

Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

BLACK WIRE----- (-)

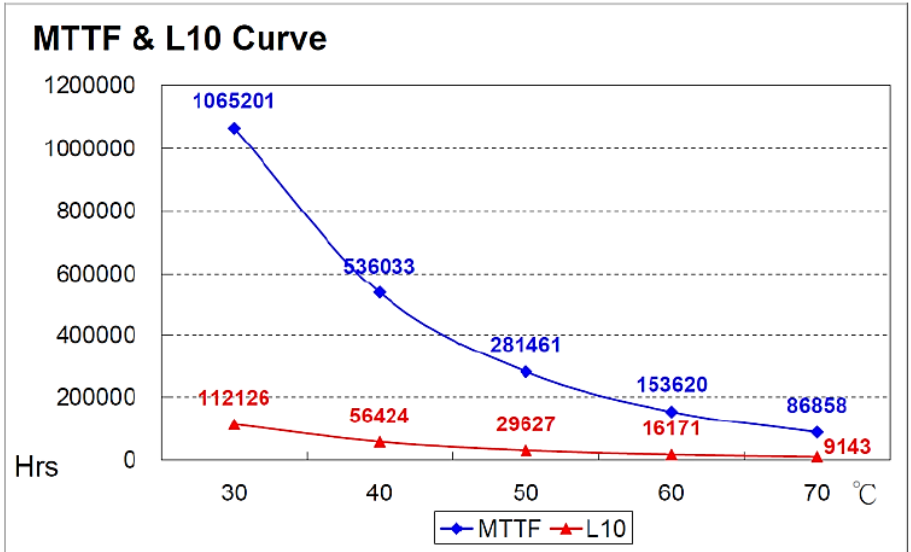
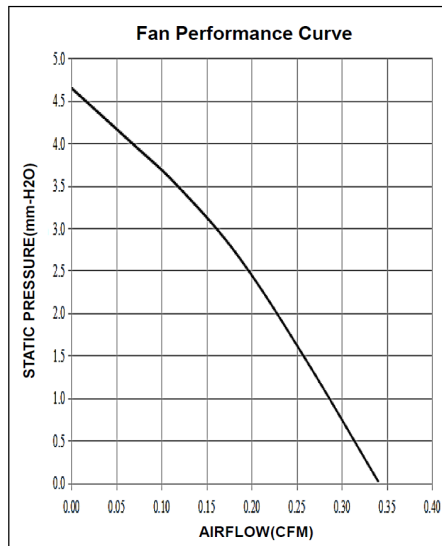
YELLOW WIRE----- (FG)



FEATURES

☒ V	FG SIGNAL	☐ IP-55 RATED
☐ RD	SIGNAL	☐ HIGH TEMP RATED
☐ PWM		☐ 3-PHASE MOTOR

DIMENSIONS	: 20 X 20 X 3.2 mm
BEARING TYPE	: AFB
MOTOR PROTECTION	: BY IC
RATED VOLTAGE	: 3.0 VDC
OPERATING VOLTAGE RANGE	: 2.2 ~ 3.5 VDC
START-UP VOLTAGE	: 2.2 VDC, POWER ON/OFF
REAL CURRENT	: 0.08 Amp
REAL POWER	: 0.24 Watt
RATED CURRENT	: 0.12 Amp +10% MAX
RATED POWER	: 0.36 Watt
RATED SPEED	: 11000 RPM ± 15 %
	(IN FREE AIR AT RATED VOLTAGE)
AIR FLOW	: 0.340 CFM (min.: 0.289 CFM)
AIR FLOW	: 0.009 CMM (min.: 0.007 CMM)
	(IN FREE AIR AT RATED VOLTAGE)
STATIC AIR PRESSURE	: 0.183 InH ₂ O (min.: 0.132 InH ₂ O)
STATIC AIR PRESSURE	: 4.660 mmH ₂ O (min.: 3.366 mmH ₂ O)
	(IN FREE AIR AT RATED VOLTAGE)
NOISE LEVEL (0.3M)	: 26.9 dB(A) (MAX.: 29.9 dB(A))
LIFE EXPECTANCY	: 50000 Hours at 40°C / 65% RH
NET WEIGHT	: 1.5 Gram



DB03003

WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0300305H1A-BTQ	30x30x3.2	ULTRA THIN DC BLOWER 30X30X3.2MM 5V .69CFM PWM	5	0.70	8.37	34.1	0.5	9500	4 Wire, PWM No Connector	5.1

Description: DC Fan with:

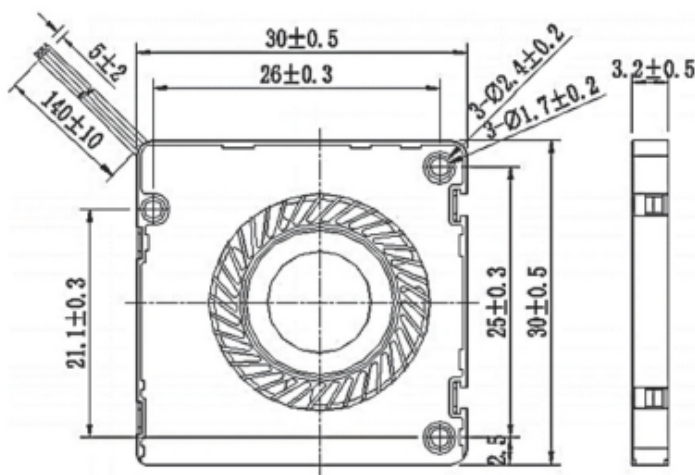
Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

BLACK WIRE----- (-)

WHITE WIRE----- (FG)

BLUE WIRE----- (PWM)

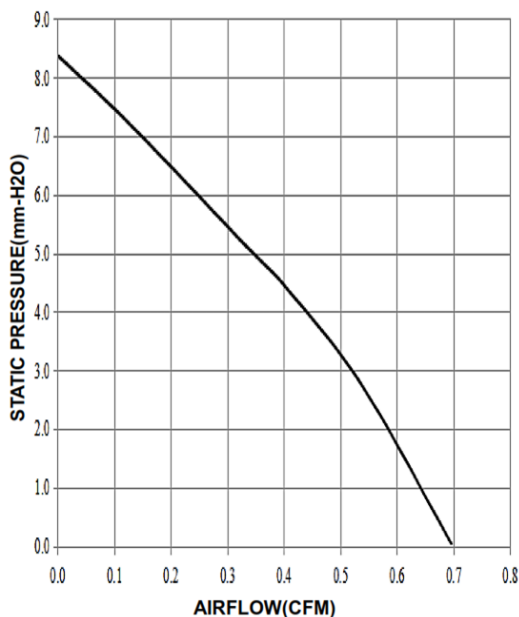


FEATURES

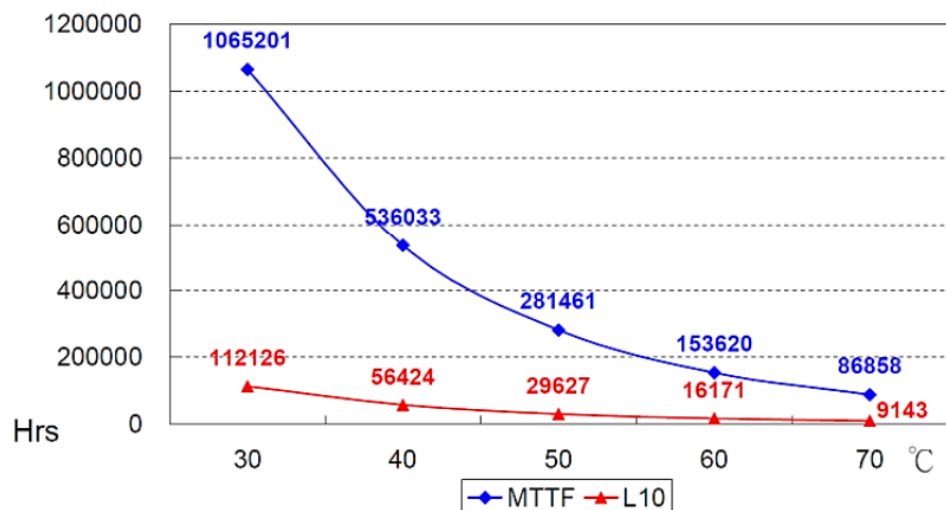
☒ FG SIGNAL	☐ IP-55 RATED
☒ RD SIGNAL	☐ HIGH TEMP RATED
☒ PWM	

DIMENSIONS	: 30 X 30 X 3.2 mm
BEARING TYPE	: AFB
MOTOR PROTECTION	: BY IC
RATED VOLTAGE	: 5.0 VDC
OPERATING VOLTAGE RANGE	: 3.5 ~ 5.5 VDC
START-UP VOLTAGE	: 3.5 VDC, POWER ON/OFF
REAL CURRENT	: 0.10 Amp
REAL POWER	: 0.50 Watt
RATED CURRENT	: 0.30 Amp +10% MAX (Duty cycle 100%)
RATED POWER	: 1.50 Watt (Duty cycle 100%)
RATED SPEED	: 9500 RPM ± 15 % (Duty cycle 100%)
(IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	: 0.696 CFM (min. 0.591 CFM)
AIR FLOW	: 0.019 CMM (min. 0.016 CMM)
(IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRESSURE	: 0.329 InH ₂ O (min. 0.237 InH ₂ O)
STATIC AIR PRESSURE	: 8.37 mmH ₂ O (min. 6.047 mmH ₂ O)
(IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL (0.3M)	: 34.1 dB(A) (MAX.: 37.1 dB(A))
LIFE EXPECTANCY	: 50000 Hours at 40°C / 65% RH
NET WEIGHT	: 5.1 Gram

Fan Performance Curve



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DB03004

WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0300405H1A-2TQ	30x30x4.0	ULTRA THIN DC BLOWER 30X30X4MM 5V .76CFM	5	0.76	8.80	31.3	0.5	9500	2 Wire, No Connector	5

Description: DC Fan with:

Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

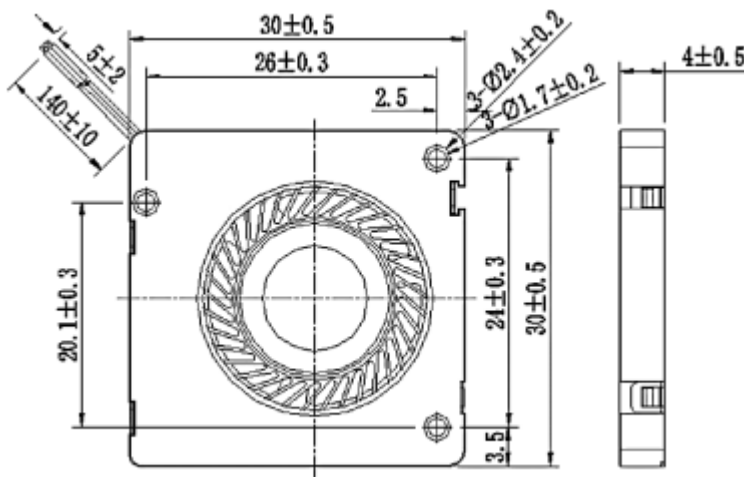
BLACK WIRE----- (-)

FEATURES

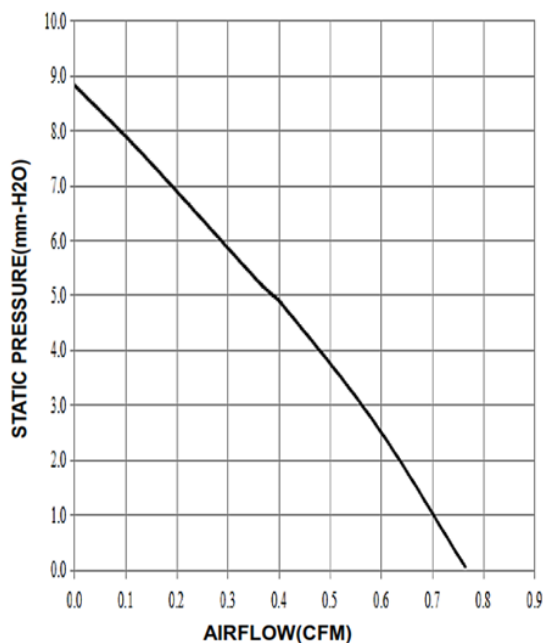
☐ FG SIGNAL	☐ IP-55 RATED
☐ RD SIGNAL	☐ HIGH TEMP RATED
☐ PWM	

DIMENSIONS

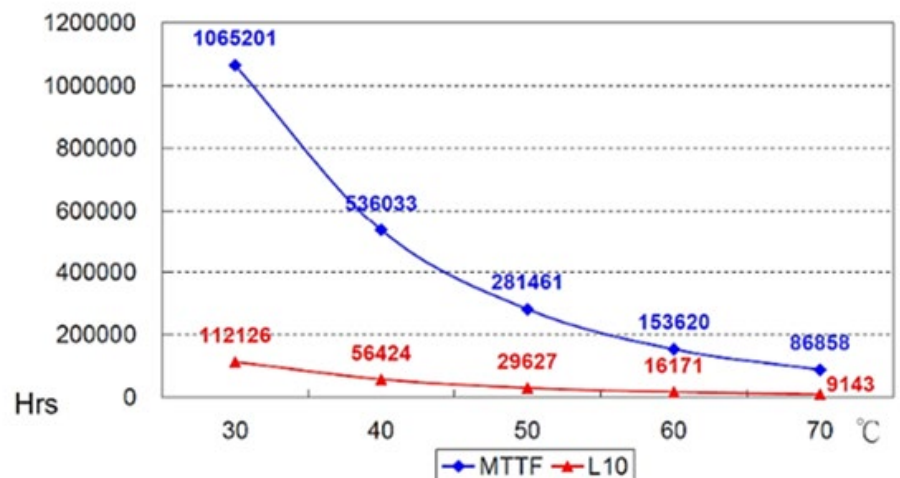
DIMENSIONS	: 30 X 30 X 4 mm
BEARING TYPE	: AFB
MOTOR PROTECTION	: BY IC
RATED VOLTAGE	: 5.0 VDC
OPERATING VOLTAGE RANGE	: 3.5 ~ 5.5 VDC
START-UP VOLTAGE	: 3.5 VDC, POWER ON/OFF
REAL CURRENT	: 0.10 Amp
REAL POWER	: 0.50 Watt
RATED CURRENT	: 0.30 Amp +10% MAX
RATED POWER	: 1.50 Watt
RATED SPEED	: 9500 RPM ± 15 %
	(IN FREE AIR AT RATED VOLTAGE)
AIR FLOW	: 0.760 CFM (min. 0.646 CFM)
AIR FLOW	: 0.021 CMM (min. 0.017 CMM)
	(IN FREE AIR AT RATED VOLTAGE)
STATIC AIR PRESSURE	: 0.346 InH ₂ O (min. 0.249 InH ₂ O)
STATIC AIR PRESSURE	: 8.80 mmH ₂ O (min. 6.358 mmH ₂ O)
	(IN FREE AIR AT RATED VOLTAGE)
NOISE LEVEL (0.3M)	: 31.3 dB(A) (MAX.: 34.3 dB(A))
LIFE EXPECTANCY	: 50000 Hours at 40°C / 65% RH
NET WEIGHT	: 5 Gram



Fan Performance Curve



MTTF & L10 Curve



DB03010

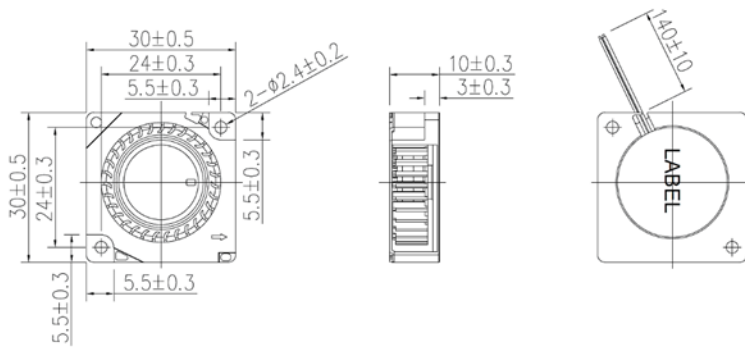
WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0301005H1A-2TQ	30x30x10	ULTRA THIN DC BLOWER 30X30X10MM 5V 1.09CFM	5	1.09	5.61	28	1.1	7000	2 Wire, No Connector	8.4

Description: DC Fan with :

Lead Wire: UL3302 , AWG#30 , 140±10 mm lead length

RED WIRE ----- (+)

BLACK WIRE ----- (-)



FEATURES

☐ FG SIGNAL	☐ IP-55 RATED
☐ RD SIGNAL	☐ HIGH TEMP RATED
☐ PWM	

DIMENSIONS

: 30 X 30 X 10 mm

BEARING TYPE

: AFB

MOTOR PROTECTION

: BY IC

RATED VOLTAGE

: 5.0 VDC

OPERATING VOLTAGE RANGE

: 3.5 ~ 5.5 VDC

START-UP VOLTAGE

: 3.5 VDC , POWER ON/OFF

REAL CURRENT

: 0.21 Amp

REAL POWER

: 1.10 Watt

RATED CURRENT

: 0.25 Amp +10% MAX

RATED POWER

: 1.30 Watt

RATED SPEED

: 7000 RPM ± 15 %
(IN FREE AIR AT RATED VOLTAGE)

AIR FLOW

: 1.09 CFM (min. 0.926 CFM)

AIR FLOW

: 0.030 CMM (min. 0.025 CMM)
(IN FREE AIR AT RATED VOLTAGE)

STATIC AIR PRESSURE

: 0.220 InH₂O (min. 0.158 InH₂O)

STATIC AIR PRESSURE

: 5.61 mmH₂O (min. 4.053 mmH₂O)
(IN FREE AIR AT RATED VOLTAGE)

NOISE LEVEL

: 28.0 dB(A) (MAX.: 31.0 dB(A))

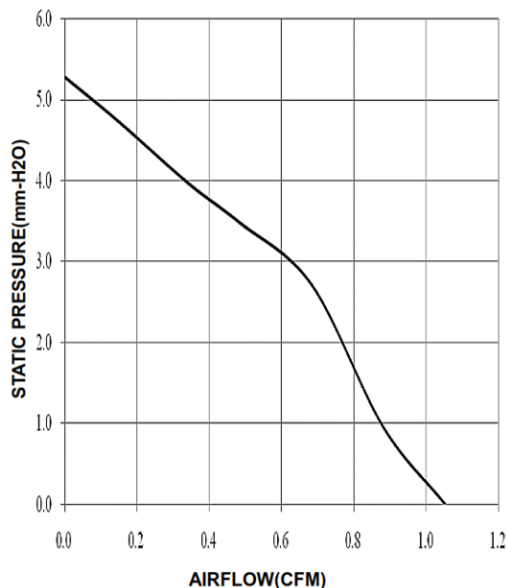
LIFE EXPECTANCY

: 50000 Hours at 40°C / 65% RH

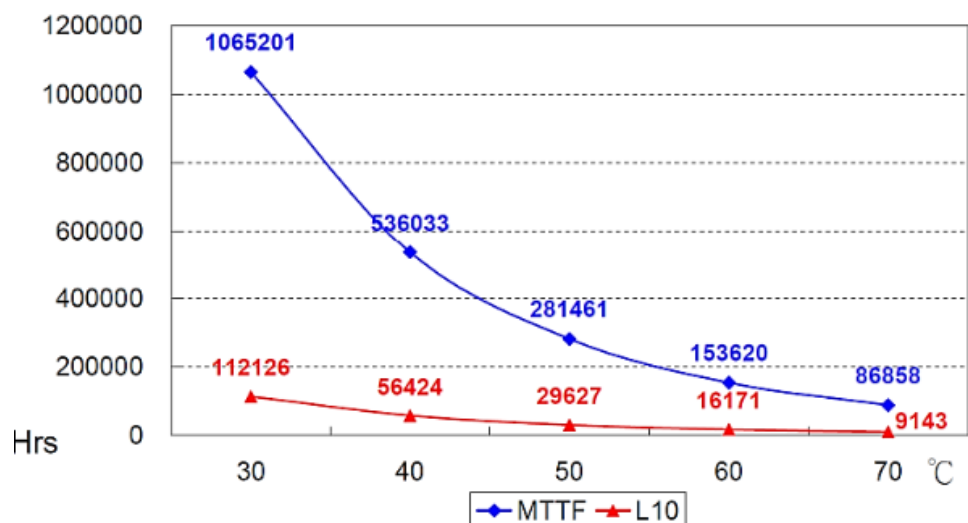
NET WEIGHT

: 8.4 Gram

Fan Performance Curve



MTTF & L10 Curve



DB05505

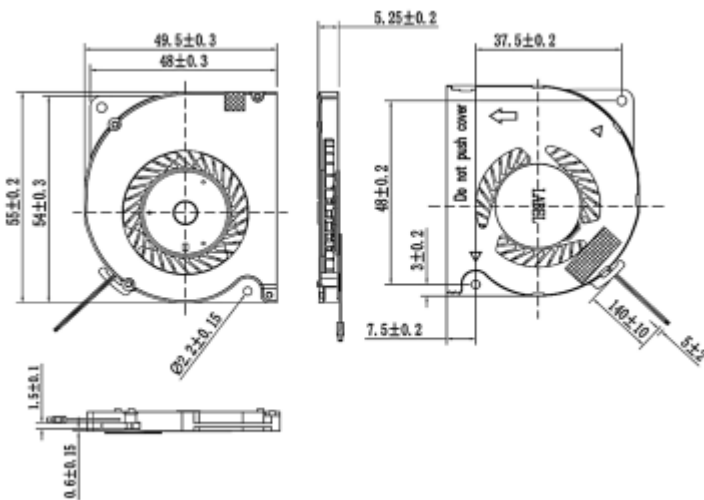
WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0550505H1A-2TQ	55x50x5.25	ULTRA THIN DC BLOWER 55X55X5.25MM 5V 1.27CFM	5	1.27	3.79	21.2	0.7	3100	2 Wire, No Connector	17

Description: DC Fan with:

Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

BLACK WIRE----- (-)



FEATURES

☐ FG SIGNAL	☐ IP-55 RATED
☐ RD SIGNAL	☐ HIGH TEMP RATED
☐ PWM	

DIMENSIONS

BEARING TYPE

MOTOR PROTECTION

RATED VOLTAGE

OPERATING VOLTAGE RANGE

START-UP VOLTAGE

REAL CURRENT

REAL POWER

RATED CURRENT

RATED POWER

RATED SPEED

: 55 X 50 X 5.25 mm

: AFB

: BY IC

: 5.0 VDC

: 3.5 ~ 6.0 VDC

: 3.5 VDC, POWER ON/OFF

: 0.12 Amp

: 0.70 Watt

: 0.40 Amp +10% MAX

: 2.00 Watt

: 3100 RPM ± 15 %

(IN FREE AIR AT RATED VOLTAGE)

AIR FLOW

: 1.27 CFM (min.: 1.079 CFM)

AIR FLOW

: 0.035 CMM (min.: 0.029 CMM)

(IN FREE AIR AT RATED VOLTAGE)

STATIC AIR PRESSURE

: 0.149 InH₂O (min.: 0.107 InH₂O)

STATIC AIR PRESSURE

: 3.79 mmH₂O (min.: 2.738 mmH₂O)

(IN FREE AIR AT RATED VOLTAGE)

NOISE LEVEL (0.5M)

: 21.2 dB(A) (MAX.: 24.2 dB(A))

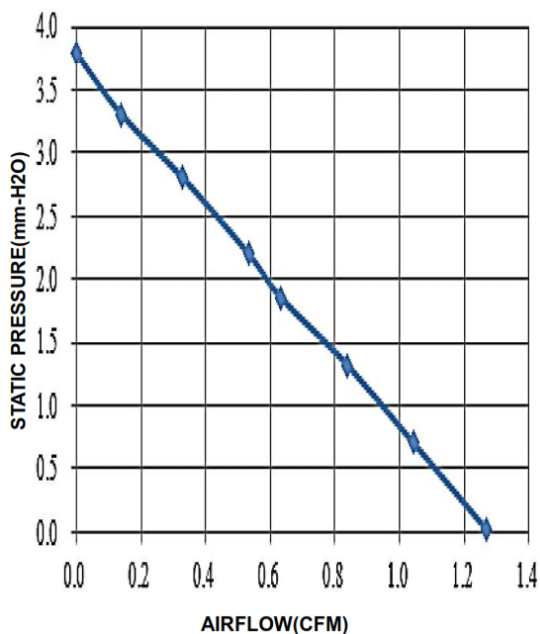
LIFE EXPECTANCY

: 50000 Hours at 40°C / 65% RH

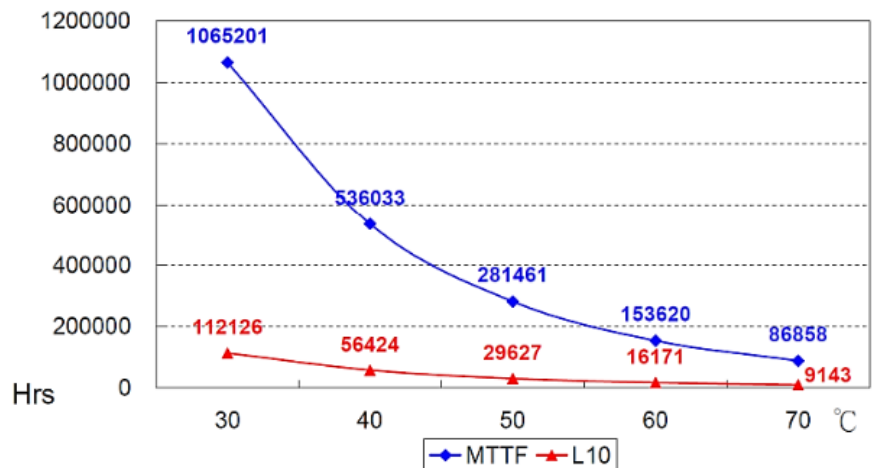
NET WEIGHT

: 17 Gram

Fan Performance Curve



MTTF & L10 Curve



DB05905

WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0590505H1A-BTQ	59.3x55.6x5.6	ULTRA THIN DC BLOWER 59.3X55.6X5.6MM 5V 3.25CFM	5	3.25	17.08	41.1	1.9	6700	4 Wire, PWM No Connector	20

Description: DC Fan with:

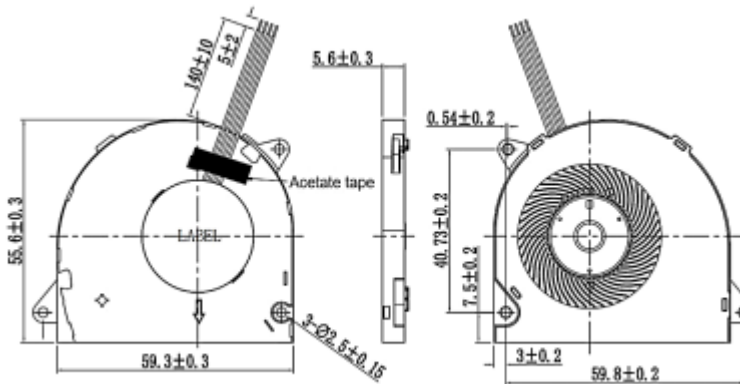
Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

BLACK WIRE----- (-)

WHITE WIRE----- (FG)

BLUE WIRE----- (PWM)

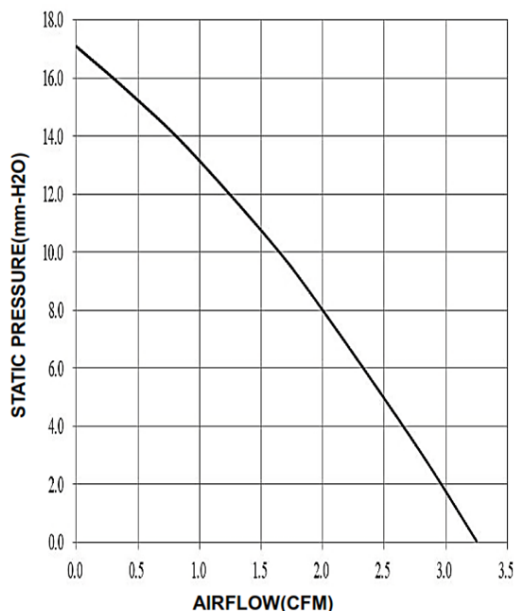


FEATURES

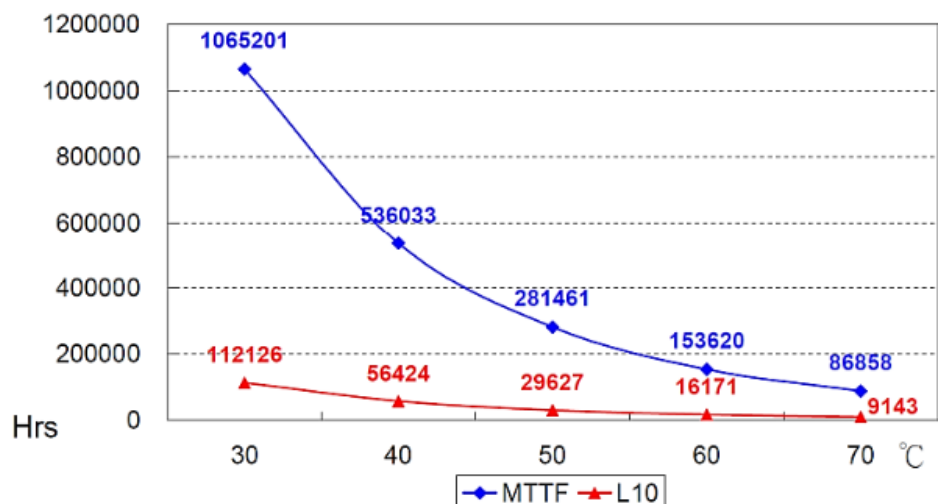
☒ FG SIGNAL	☐ IP-55 RATED
☐ RD SIGNAL	☐ HIGH TEMP RATED
☒ PWM	

DIMENSIONS	: 59.3 X 55.6 X 5.6 mm
BEARING TYPE	: AFB
MOTOR PROTECTION	: BY IC
RATED VOLTAGE	: 5.0 VDC
OPERATING VOLTAGE RANGE	: 3.5 ~ 5.5 VDC
START-UP VOLTAGE	: 3.5 VDC, POWER ON/OFF
REAL CURRENT	: 0.38 Amp
REAL POWER	: 1.90 Watt
RATED CURRENT	: 0.40 Amp +10% MAX (Duty cycle 100%)
RATED POWER	: 2.00 Watt (Duty cycle 100%)
RATED SPEED	: 6700 RPM ± 10 % (Duty cycle 100%)
AIR FLOW	: (IN FREE AIR AT RATED VOLTAGE)
	: 3.25 CFM (min. 2.925 CFM)
AIR FLOW	: (IN FREE AIR AT RATED VOLTAGE)
	: 0.091 CMM (min. 0.081 CMM)
STATIC AIR PRESSURE	: (IN FREE AIR AT RATED VOLTAGE)
	: 0.672 InH ₂ O (min. 0.544 InH ₂ O)
STATIC AIR PRESSURE	: (IN FREE AIR AT RATED VOLTAGE)
	: 17.08 mmH ₂ O (min. 13.834 mmH ₂ O)
NOISE LEVEL (0.5M)	: 41.1 dB(A) (MAX.: 44.1 dB(A))
LIFE EXPECTANCY	: 50000 Hours at 40°C / 65% RH
NET WEIGHT	: 20 Gram

Fan Performance Curve



MTTF & L10 Curve



DB06304

WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0630405H1A-BTC	63x63x4	ULTRA THIN DC BLOWER 63X63X4MM 5V 2.15CFM	5	2.15	12.84	35.4	1.75	5700	4 Wire, PWM No Connector	26

Description: DC Fan with:

Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

BLACK WIRE----- (-)

WHITE WIRE----- (FG)

BLUE WIRE----- (PWM)

FEATURES

☒ V	FG SIGNAL	☐	IP-55 RATED
☐	RD SIGNAL	☐	HIGH TEMP RATED
☒ V	PWM		

DIMENSIONS

: 63 X 63 X 4 mm

BEARING TYPE

: AFB

MOTOR PROTECTION

: BY IC

RATED VOLTAGE

: 5.0 VDC

OPERATING VOLTAGE RANGE

: 3.5 ~ 5.5 VDC

START-UP VOLTAGE

: 3.5 VDC, POWER ON/OFF

REAL CURRENT

: 0.40 Amp

REAL POWER

: 1.75 Watt

RATED CURRENT

: 0.50 Amp +10% MAX (Duty cycle 100%)

RATED POWER

: 2.50 Watt (Duty cycle 100%)

RATED SPEED

: 5700 RPM $\pm 10\%$ (Duty cycle 100%)

(IN FREE AIR AT RATED VOLTAGE)

AIR FLOW

: 2.15 CFM (min. 1.935 CFM)

AIR FLOW

: 0.060 CMM (min. 0.054 CMM)

(IN FREE AIR AT RATED VOLTAGE)

STATIC AIR PRESSURE

: 0.505 InH₂O (min. 0.409 InH₂O)

STATIC AIR PRESSURE

: 12.84 mmH₂O (min. 10.40 mmH₂O)

(IN FREE AIR AT RATED VOLTAGE)

NOISE LEVEL (0.5M)

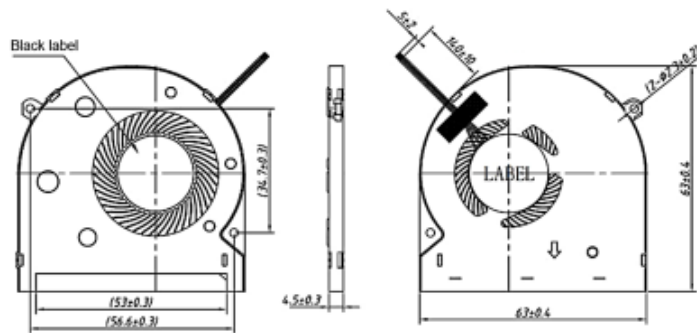
: 35.4 dB(A) (MAX.: 38.4 dB(A))

LIFE EXPECTANCY

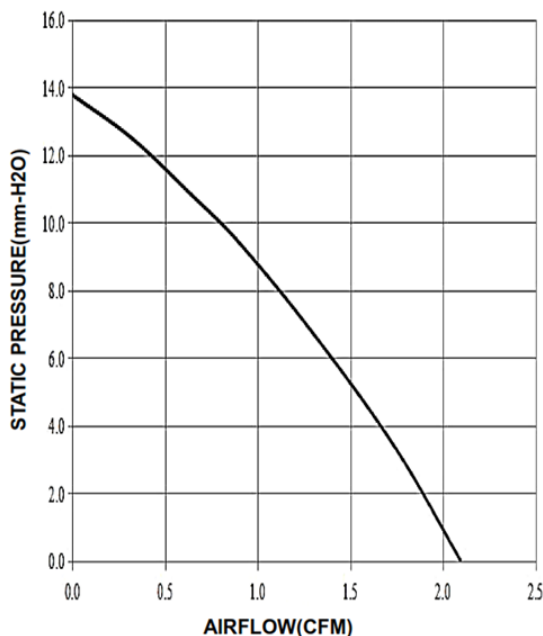
: 50000 Hours at 40°C / 65% RH

NET WEIGHT

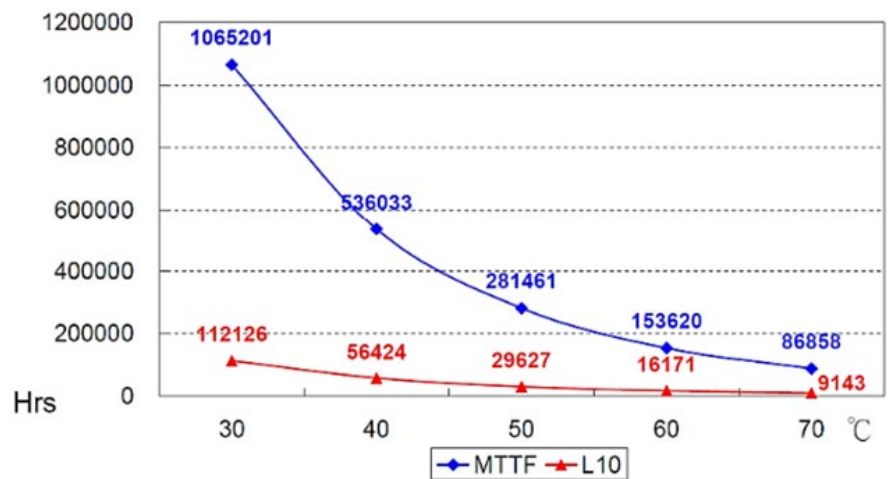
: 26 Gram



Fan Performance Curve



MTTF & L10 Curve



DB06205

WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0620505H1A-BTQ	61.8x57.3x5.6	ULTRA THIN DC BLOWER 61.8X57.3X5.6MM 5V 2.68CFM	5	2.68	19.90	42.8	1.9	7400	4 Wire, PWM No Connector	17

Description: DC Fan with:

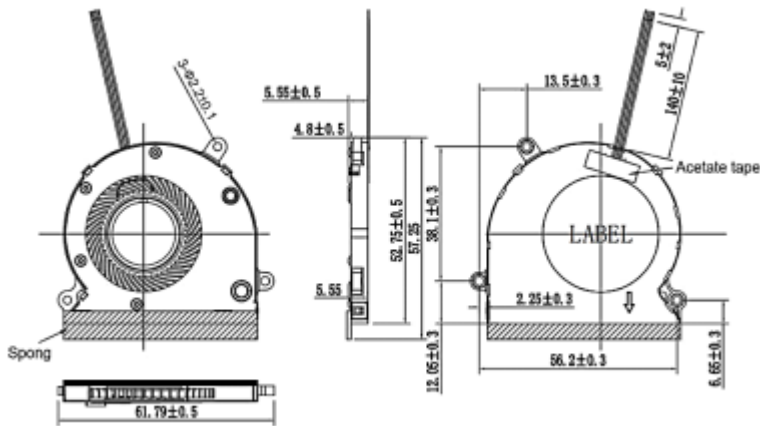
Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

BLACK WIRE----- (-)

WHITE WIRE----- (FG)

BLUE WIRE----- (PWM)

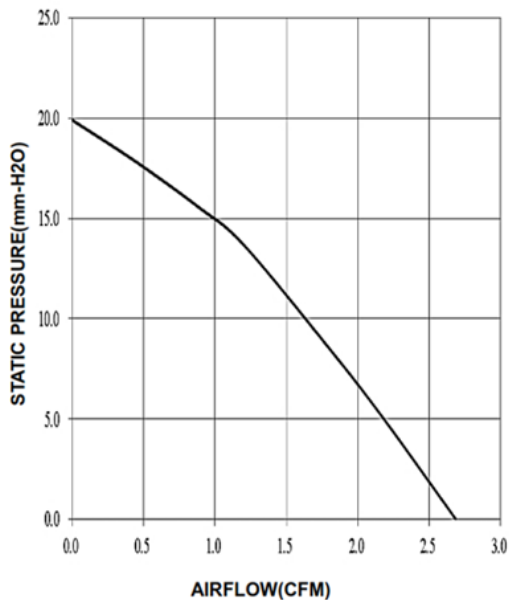


FEATURES

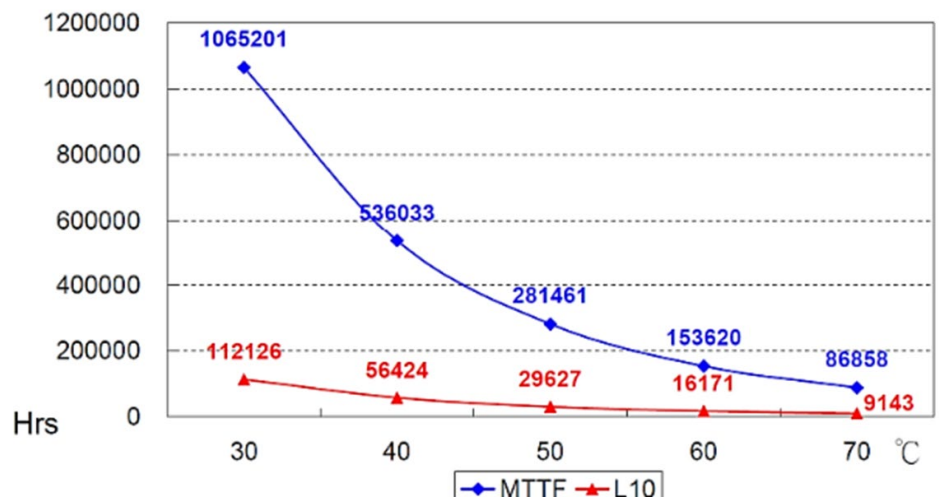
V	FG SIGNAL	IP-55 RATED
V	RD SIGNAL	HIGH TEMP RATED
V	PWM	

DIMENSIONS	: 61.8 X 57.3 X 5.6 mm
BEARING TYPE	: AFB
MOTOR PROTECTION	: BY IC
RATED VOLTAGE	: 5.0 VDC
OPERATING VOLTAGE RANGE	: 3.5 ~ 5.5 VDC
START-UP VOLTAGE	: 3.5 VDC, POWER ON/OFF
REAL CURRENT	: 0.38 Amp
REAL POWER	: 1.90 Watt
RATED CURRENT	: 0.50 Amp +10% MAX (Duty cycle 100%)
RATED POWER	: 2.50 Watt (Duty cycle 100%)
RATED SPEED	: 7400 RPM ± 10 % (Duty cycle 100%)
	(IN FREE AIR AT RATED VOLTAGE)
AIR FLOW	: 2.68 CFM (min. 2.412 CFM)
AIR FLOW	: 0.075 CMM (min. 0.067 CMM)
	(IN FREE AIR AT RATED VOLTAGE)
STATIC AIR PRESSURE	: 0.783 InH ₂ O (min. 0.634 InH ₂ O)
STATIC AIR PRESSURE	: 19.90 mmH ₂ O (min. 16.119 mmH ₂ O)
	(IN FREE AIR AT RATED VOLTAGE)
NOISE LEVEL (0.5M)	: 42.8 dB(A) (MAX.: 45.8 dB(A))
LIFE EXPECTANCY	: 50000 Hours at 40°C / 65% RH
NET WEIGHT	: 17 Gram

Fan Performance Curve



MTTF & L10 Curve



DB08904

WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0890405H1A-BTQ	89.1x83.8x4.7	ULTRA THIN DC BLOWER 89.1X83.8X4.7MM 5V 3.91CFM	5	3.91	11.40	38.5	1.5	3400	4 Wire, PWM No Connector	38

Description: DC Fan with:

Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

BLACK WIRE----- (-)

WHITE WIRE----- (FG)

BLUE WIRE----- (PWM)

FEATURES

☒ FG SIGNAL	☐ IP-55 RATED
☐ RD SIGNAL	☐ HIGH TEMP RATED
☒ PWM	

DIMENSIONS

BEARING TYPE

MOTOR PROTECTION

RATED VOLTAGE

START-UP DUTY

REAL CURRENT

REAL POWER

RATED CURRENT

RATED POWER

RATED SPEED

: 89.1 X 83.8 X 4.7 mm

: FDB

: BY IC

: 5.0 VDC

: 20% , AT RATED VOLTAGE

: 0.30 Amp

: 1.50 Watt

: 0.45 Amp +10% MAX (Duty cycle 100%)

: 2.25 Watt (Duty cycle 100%)

: 3400 RPM ± 10 % (Duty cycle 100%)

(IN FREE AIR AT RATED VOLTAGE)

AIR FLOW

: 3.91 CFM (min 3.519 CFM)

AIR FLOW

: 0.110 CMM (min 0.099 CMM)

(IN FREE AIR AT RATED VOLTAGE)

STATIC AIR PRESSURE

: 0.448 InH₂O (min 0.362 InH₂O)

STATIC AIR PRESSURE

: 11.4 mmH₂O (min 9.234 mmH₂O)

(IN FREE AIR AT RATED VOLTAGE)

NOISE LEVEL

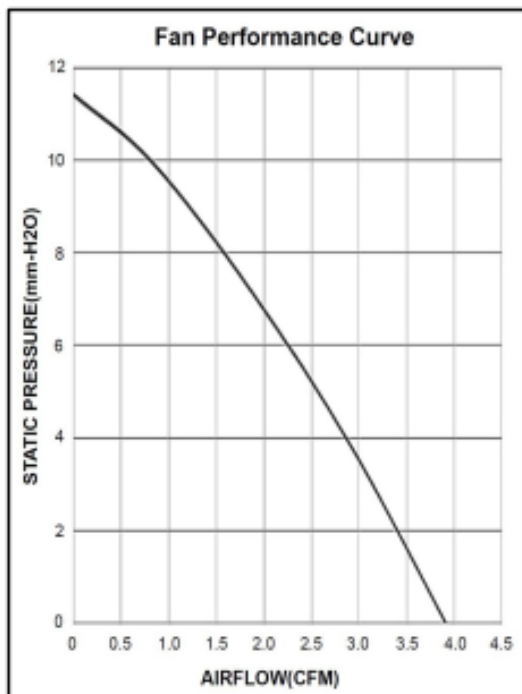
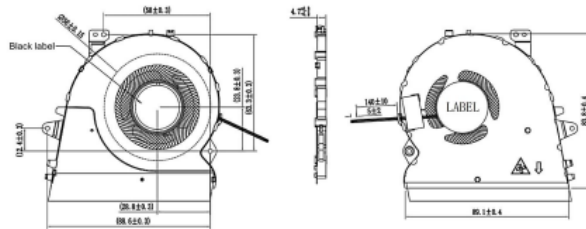
: 38.5 dB(A) (MAX.: 41.5 dB(A))

LIFE EXPECTANCY

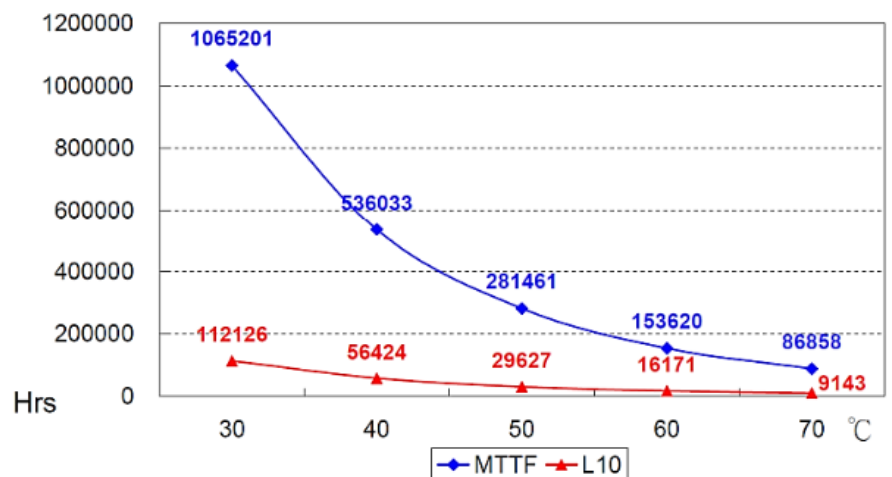
: 50000 Hours at 40°C / 65% RH

NET WEIGHT

: 38 Gram



MTTF & L10 Curve



DB08705

WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0870505H1A-BTQ	87x74.5x5	ULTRA THIN DC BLOWER 87X74.5X5MM 5V 4.63CFM	5	4.63	14.52	40.9	2.25	4500	4 Wire, PWM No Connector	41

Description: DC Fan with:

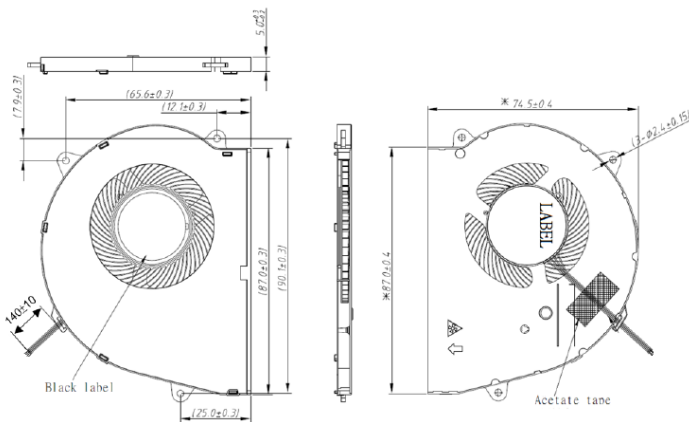
Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

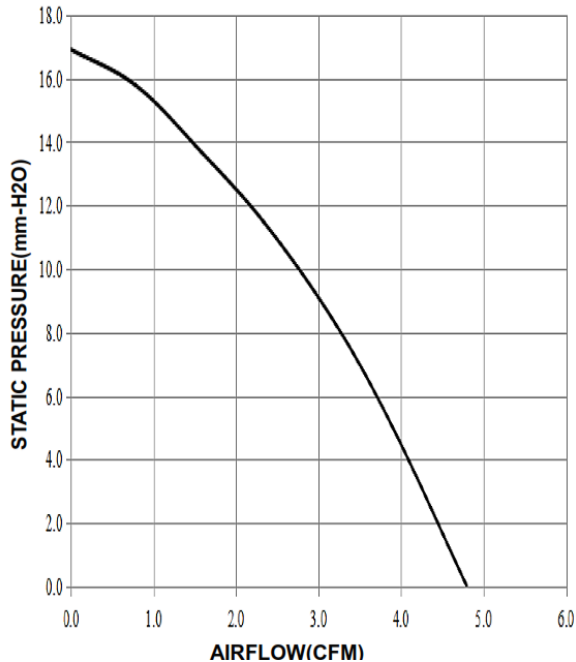
BLACK WIRE----- (-)

WHITE WIRE----- (FG)

BLUE WIRE----- (PWM)



Fan Performance Curve



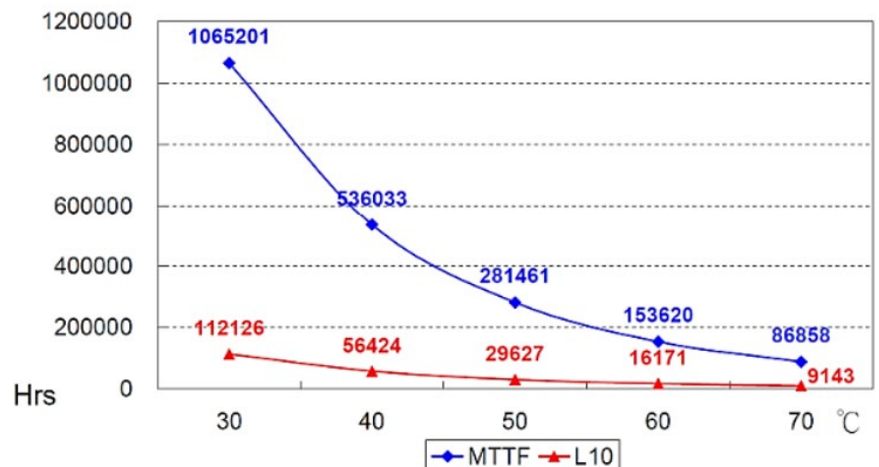
FEATURES

V	FG SIGNAL	IP-55 RATED
V	RD SIGNAL	HIGH TEMP RATED
V	PWM	

DIMENSIONS

BEARING TYPE	: AFB
MOTOR PROTECTION	: BY IC
RATED VOLTAGE	: 5.0 VDC
OPERATING VOLTAGE RANGE	: 2.5 ~ 5.5 VDC
START-UP VOLTAGE	: 2.5 VDC, POWER ON/OFF
REAL CURRENT	: 0.45 Amp
REAL POWER	: 2.25 Watt
RATED CURRENT	: 0.50 Amp +10% MAX (Duty cycle 100%)
RATED POWER	: 2.50 Watt (Duty cycle 100%)
RATED SPEED	: 4500 RPM ± 15 % (Duty cycle 100%)
(IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	: 4.63 CFM (min. 3.935 CFM)
AIR FLOW	: 0.131 CMM (min. 0.111 CMM)
(IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRESSURE	: 0.571 InH ₂ O (min. 0.412 InH ₂ O)
STATIC AIR PRESSURE	: 14.52 mmH ₂ O (min. 10.49 mmH ₂ O)
(IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL (0.5M)	: 40.9 dB(A) (MAX.: 43.9 dB(A))
LIFE EXPECTANCY	: 50000 Hours at 40°C / 65% RH
NET WEIGHT	: 41 Gram

MTTF & L10 Curve



WKV PN	Fan Size (mm)	Description	Voltage (VDC)	Air Flow (CFM)	Static Pressure (mm)	Noise	Power (Watts)	RPM	Termination	Weight (g)
DB0870605H1A-BTD	87x74.5x5.5	ULTRA THIN DC BLOWER 87X74.5X5.52MM 5V 5.70CFM	5	5.70	15.87	41.85	2.25	4600	4 Wire, PWM No Connector	46

Description: DC Fan with:

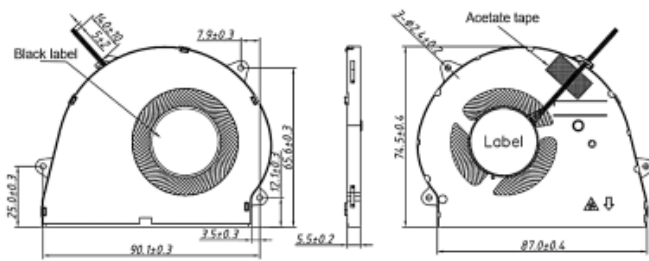
Lead Wire: UL3302, AWG#32, 140mm lead length

RED WIRE----- (+)

BLACK WIRE----- (-)

WHITE WIRE----- (FG)

BLUE WIRE----- (PWM)



FEATURES

☒ FG SIGNAL	☐ IP-55 RATED
☐ RD SIGNAL	☐ HIGH TEMP RATED
☒ PWM	

DIMENSIONS

BEARING TYPE

MOTOR PROTECTION

RATED VOLTAGE

OPERATING VOLTAGE RANGE

START-UP VOLTAGE

REAL CURRENT

REAL POWER

RATED CURRENT

RATED POWER

RATED SPEED

: 87 X 74 X 5.5 mm
: AFB
: BY IC
: 5.0 VDC
: 3.5 ~ 5.5 VDC
: 3.5 VDC, POWER ON/OFF
: 0.50 Amp
: 2.50 Watt
: 0.50 Amp +10% MAX (Duty cycle 100%)
: 2.50 Watt (Duty cycle 100%)
: 4600 RPM ± 15 % (Duty cycle 100%)
(IN FREE AIR AT RATED VOLTAGE)
: 5.70 CFM (min. 4.845 CFM)
: 0.161 CMM (min. 0.136 CMM)
(IN FREE AIR AT RATED VOLTAGE)
: 0.624 InH ₂ O (min. 0.450 InH ₂ O)
: 15.87 mmH ₂ O (min. 11.466 mmH ₂ O)
(IN FREE AIR AT RATED VOLTAGE)
: 41.85 dB(A) (MAX.: 44.85 dB(A))
: 50000 Hours at 40°C / 65% RH
: 46 Gram

AIR FLOW

AIR FLOW

STATIC AIR PRESSURE

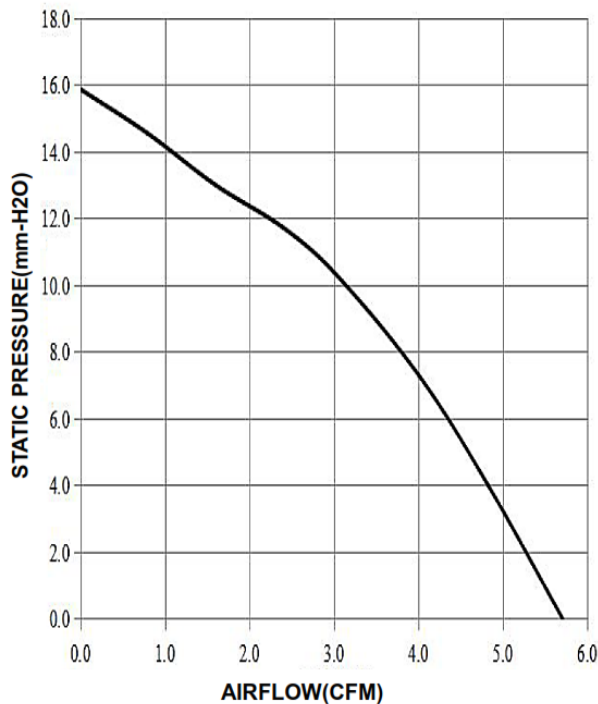
STATIC AIR PRESSURE

NOISE LEVEL (0.5M)

LIFE EXPECTANCY

NET WEIGHT

Fan Performance Curve



MTTF & L10 Curve

