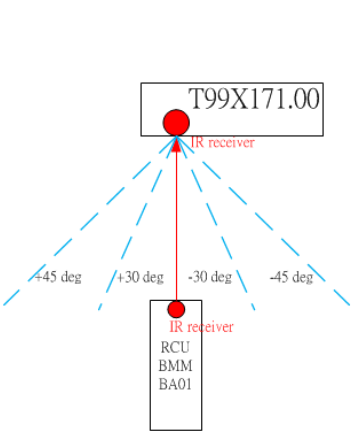


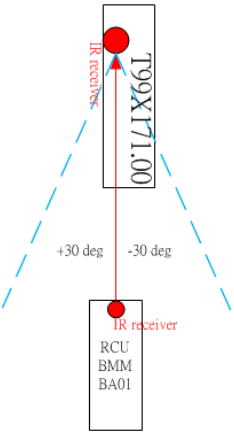
IR test			
Equipment: Monitor x 1, DUT x 1, adapter x 1, remote control BMM-BA01, HDMI cable x1, table lamp x1.			
Criteria: DUT MUST be able to receive and acknowledge commands transmitted by the Remote Control at a distance of 10M in 0 deg/30 deg and 7M in 45 deg			
Result:	PASS		

Test w/o dest lamp

Horizontal Test



Vertical Test



Test Item	W/O desk lamp	W/ desk lamp
Nearby: >=20cm	>=20cm	Pass
Horizontal: +45°	15.6m	Pass
Horizontal: +30°	15.6m	Pass
Horizontal: 0°	15.6m	Pass
Horizontal: -30°	15.6m	Pass
Horizontal: -45°	15.6m	Pass
Vertical: +30°	15.6m	Pass
Vertical: 0°	15.6m	Pass
Vertical: -30°	15.6m	Pass

1.1 Horizontal Deflection

	Azimuth: +45°	Azimuth: +30°	Azimuth: 0°	Azimuth: -30°	Azimuth: -45°
Available Receiver Distance (meter)	>7M	>10M	>10M	>10M	>7M

1.2 Vertical Deflection

	Elevation +30°	Elevation 0°	Elevation -30°
Available Receiver Distance (meter)	>10M	>10M	>10M

1.3 Component Specification Analysis

Component Specification Compare Result	T99X171.00
IR Component P/N	Vishay / TSOP75338TR
IR Carrier Frequency (KHz)	38
Minimum Irradiance, E _{min} (mW/m2)	0.15

1.4 Configurations

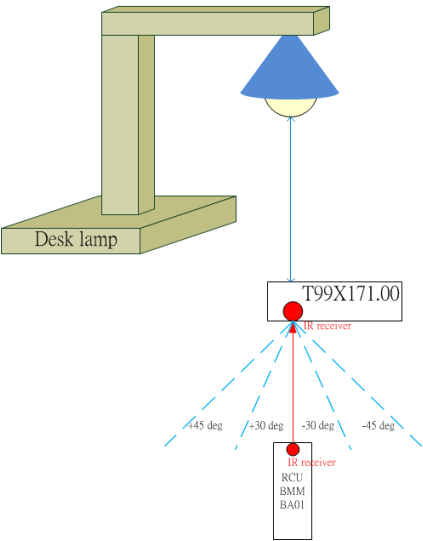
Main board: T99X171.00 V015
F/W:
4.9.113
#4 Tue Apr 23 16:23:29 CST 2019
Build
BFX_AT100-eng 9 PI 20190423 release-keys

TSOP75338TR

ELECTRICAL AND OPTICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.
Supply voltage	E _{cc} = 0, V _{IS} = 3.3 V	V _S	2.5		5.5
Supply current	E _{cc} = 0, 40 kHz, sunlight	I _{SD}	0.27	0.35	0.45
Transmission distance	E _c = 0, test signal see fig. 1, IR diode TSAL6200, I _{cc} = 250 mA	d		45	
Output voltage low	I _{SD} = 0.5 mA, E _c = 0.7 mW/m², test signal see fig. 1	V _{OL}			100
Minimum irradiance	Pulse width tolerance: t _{pw} = 5% < t _{pw} < t _p = 6% test signal see fig. 1	E _{c min}	0.15	0.35	
Maximum irradiance	t _{pw} = 5% < t _{pw} < t _p = 6% test signal see fig. 1	E _{c max}	30		
Directivity	Angle of half transmission distance	Φ _{1/2}		± 50	

Test w/ dest lamp

Horizontal Test



Vertical Test

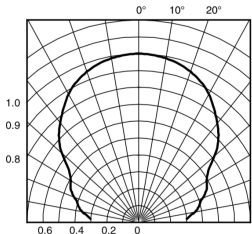
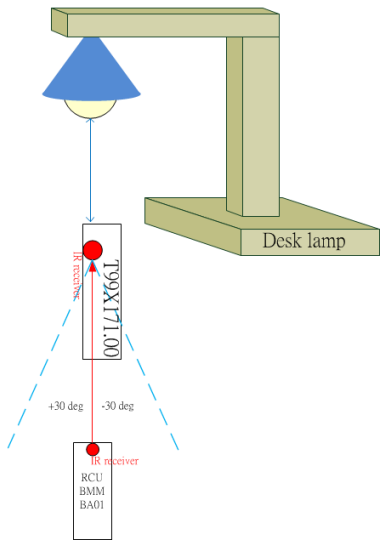


Fig. 12 - Horizontal Directivity

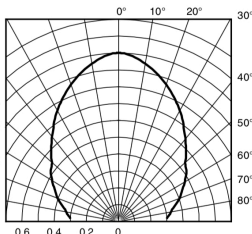
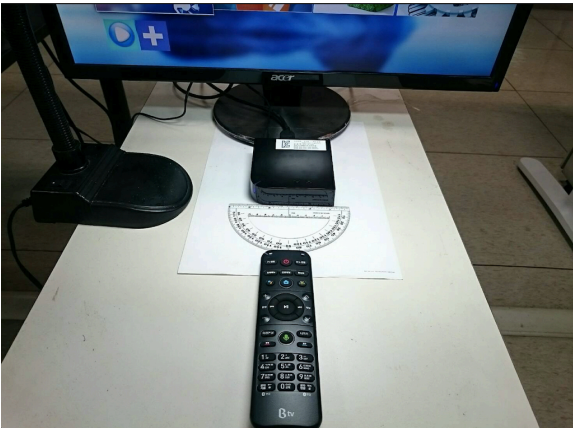


Fig. 13 - Vertical Directivity

Setup for horizontal test (Desk lamp on)



Setup for vertical test (Desk lamp on)



Setup for horizontal test (Desk lamp off)



Setup for vertical test (Desk lamp off)

