



中国赛宝实验室  
(工业和信息化部电子第五研究所)  
CHINA CEPREI LABORATORY



中国认可  
国际互认  
校准  
CALIBRATION  
CNAS L0462

# 校准证书

## CALIBRATION CERTIFICATE

证书编号: 2SB16002068-0001

Certificate No.



委托单位:

Client

深圳市知用电子有限公司/Shenzhen ZhiYong Electronic Co.,Ltd

委托方地址:

Address

深圳市龙岗区黄阁北路天安数码新城四号大厦A1702

仪器名称:

Description

TWO-LINE V-NETWORK

型号规格:

Model/Type

EM5040B

制造商:

Manufacturer

CYBERTEK

机身号:

Serial No.

E165040097

校准日期:

Cal. Date

2016 年 12 月 05 日

建议再校日期:

Next Cal. Date

2017 年 12 月 05 日

结论:

Conclusion

所校准项目合格(Passed at Calibration Items)

校准:

Calibrated by

付贵瑜

核验:

Inspected by

陈考

签发:

Approved by

魏武

室主任

Department  
Supervisor

印章:

Stamp

赛宝计量检测中心

广州总部地址: 广州天河区东莞庄路110号

客服电话: 020-87237633 传真: 020-87236189

投诉电话: 020-87236896、020-87236789

邮件: cal@ceprei.com

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CEPREI Calibration and Testing Center

H.Q. Addr: No.110 Dongguanzhuang Road, Tianhe District, Guangzhou

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Complaint phone: 020-87236896, 020-87236789

Email: cal@ceprei.com

Website: www.ceprei-cal.com



# 说 明

## DIRECTIONS

证书编号(Certificate No.): 2SB16002068-0001

1. 本机构质量管理体系符合ISO/IEC 17025的要求, 获得中国合格评定国家认可委员会(CNAS)认可, 认可证书号为: CNAS L0462。

This laboratory quality management system meets the ISO/IEC 17025 and is accredited by the China National Accreditation Service for Conformity Assessment, No. CNAS L0462.

2. 本机构出具的数据均可溯源到国家计量基准和国际单位制(SI)。

The data issued by this laboratory is traceable to national primary standards and International system of Units (SI) .

3. 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes):

▪ JJF (电子) 30806-2007 人工电源网络校准规范 阻抗:(1~180) $\Omega$ @(9kHz~108MHz);电压分压系数:(-20~20)dB@(9kHz~108MHz);相位:(-90°~90°)@(9kHz~108MHz);隔离度:(9kHz~108MHz)

\* 详细认可范围请查看CNAS网站中注册编号为L0462的证书附件(Please see the attachment of certificate No. L0462 at CNAS website for details)。

4. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration):

名 称 (Description)	技术指标 (Specification)	证书编号 (Certificate No.)	有效期至 (Due Date)
网络分析仪/ENA Series Network Analyzer	f: $\pm 1 \times 10^{-7}$ ; Output Level Flatness: $\pm 1$ dB; Output Level Linearity: $\pm 0.75$ dB; Receiver Magnitude Dynamic: $\pm 0.035$ dB	4GC16000378-0001	2017-09-16

5. 校准地点(The calibration place): 赛宝计量检测中心广州实验室

6. 环境条件(Environmental conditions): 温度(Temperature): 23℃ 相对湿度(Relative Humidity): 60%

7. 依据《JJF 1059.1-2012 测量不确定度评定与表示》进行测量结果不确定度评定。评定结果以包含因子为 $k$ 的扩展不确定度 $U$ 或相对扩展不确定度 $U_{rel}$ 表示。

The evaluation was made according to JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement. The evaluation results were expressed by the extended uncertainty  $U$  or relative expanded uncertainty  $U_{rel}$  with a coverage factor  $k$ .

8. 证书中"P"、"合格"代表"测量结果在允许范围内", "F"、"不合格"代表"测量结果不在允许范围内", "N/A"代表"不适用"。

"P" and "Pass" in this certificate stand for "Low Limit $\leq$ the measured value $\leq$ High Limit", "F" and "Fail" stand for "the measured value $<$ Low Limit or the measured value $>$ High Limit", "N/A" stands for "Not Applicable".

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注: 1. 本证书未经本机构书面授权, 不得部分复制。(The certificate shall not be partly reproduced without written approval of the laboratory.)

2. 本次校准结果仅与被校物有关。(The results are only related to the items calibrated.)





## 1 外观与工作正常性检查(Appearance and Function Check)

结论  
(Pass/Fail)  
P

## 2 电压分压系数(Voltage Division Factor)

Line	频率 (Frequency) (MHz)	标称值 (Nominal) (dB)	标准值 (Reference) (dB)	误差 (Error) (dB)	U (k=2) (dB)
N	0.009	10.00	11.11	-1.11	0.25
	0.015	10.00	10.05	-0.05	0.25
	0.020	10.00	9.90	0.10	0.25
	0.025	10.00	9.83	0.17	0.25
	0.030	10.00	9.82	0.18	0.25
	0.040	10.00	9.81	0.19	0.25
	0.050	10.00	9.79	0.21	0.25
	0.060	10.00	9.78	0.22	0.25
	0.070	10.00	9.77	0.23	0.25
	0.080	10.00	9.76	0.24	0.25
	0.090	10.00	9.75	0.25	0.25
	0.100	10.00	9.75	0.25	0.25
	0.15	10.00	9.73	0.27	0.25
	0.17	10.00	9.73	0.27	0.25
	0.20	10.00	9.71	0.29	0.25
	0.25	10.00	9.71	0.29	0.25
	0.30	10.00	9.71	0.29	0.25
	0.35	10.00	9.71	0.29	0.25
	0.40	10.00	9.71	0.29	0.25
	0.50	10.00	9.71	0.29	0.25
	0.60	10.00	9.71	0.29	0.25
	0.70	10.00	9.71	0.29	0.25
	0.80	10.00	9.71	0.29	0.25
	0.90	10.00	9.71	0.29	0.25
	1.00	10.00	9.71	0.29	0.25
	1.20	10.00	9.71	0.29	0.25
	1.50	10.00	9.72	0.28	0.25
	2.00	10.00	9.73	0.27	0.25
	2.50	10.00	9.72	0.28	0.25
	3.00	10.00	9.73	0.27	0.25
	4.00	10.00	9.74	0.26	0.26
	5.00	10.00	9.75	0.25	0.26
	7.00	10.00	9.79	0.21	0.26
	10.00	10.00	9.80	0.20	0.27
	15.00	10.00	9.82	0.18	0.28
	20.00	10.00	9.88	0.12	0.29
	30.00	10.00	9.94	0.06	0.32





## 2电压分压系数(Voltage Division Factor)

Line	频率 (Frequency) (MHz)	标称值 (Nominal) (dB)	标准值 (Reference) (dB)	误差 (Error) (dB)	$U$ ( $k=2$ ) (dB)
L1	0.009	10.00	10.84	-0.84	0.25
	0.015	10.00	9.78	0.22	0.25
	0.020	10.00	9.65	0.35	0.25
	0.025	10.00	9.60	0.40	0.25
	0.030	10.00	9.59	0.41	0.25
	0.040	10.00	9.58	0.42	0.25
	0.050	10.00	9.58	0.42	0.25
	0.060	10.00	9.59	0.41	0.25
	0.070	10.00	9.59	0.41	0.25
	0.080	10.00	9.59	0.41	0.25
	0.090	10.00	9.59	0.41	0.25
	0.100	10.00	9.59	0.41	0.25
	0.15	10.00	9.58	0.42	0.25
	0.17	10.00	9.59	0.41	0.25
	0.20	10.00	9.59	0.41	0.25
	0.25	10.00	9.59	0.41	0.25
	0.30	10.00	9.59	0.41	0.25
	0.35	10.00	9.59	0.41	0.25
	0.40	10.00	9.59	0.41	0.25
	0.50	10.00	9.60	0.40	0.25
	0.60	10.00	9.59	0.41	0.25
	0.70	10.00	9.60	0.40	0.25
	0.80	10.00	9.59	0.41	0.25
	0.90	10.00	9.60	0.40	0.25
	1.00	10.00	9.60	0.40	0.25
	1.20	10.00	9.60	0.40	0.25
	1.50	10.00	9.61	0.39	0.25
	2.00	10.00	9.62	0.38	0.25
	2.50	10.00	9.62	0.38	0.25
	3.00	10.00	9.62	0.38	0.25
	4.00	10.00	9.64	0.36	0.26
	5.00	10.00	9.65	0.35	0.26
	7.00	10.00	9.69	0.31	0.26
	10.00	10.00	9.72	0.28	0.27
	15.00	10.00	9.80	0.20	0.28
	20.00	10.00	9.94	0.06	0.29
	30.00	10.00	10.18	-0.18	0.32



## 3 阻抗(Impedance)

Line	频率 (Frequency) (MHz)	标称值 (Nominal) (Ω)	标准值 (Reference) (Ω)	误差 (Error) (Ω)	允许误差 (Limit) (Ω)	结论 (Pass/Fail)	U (k=2) (Ω)
N	0.009	5.22	5.72	-0.50	±1.04	P	0.21
	0.015	6.22	5.77	0.45	±1.24	P	0.21
	0.020	7.25	6.47	0.78	±1.45	P	0.24
	0.025	8.38	7.38	1.00	±1.68	P	0.27
	0.030	9.56	8.32	1.24	±1.91	P	0.31
	0.040	11.99	10.34	1.65	±2.40	P	0.38
	0.050	14.41	12.36	2.05	±2.88	P	0.46
	0.060	16.77	14.36	2.41	±3.35	P	0.53
	0.070	19.04	16.30	2.74	±3.81	P	0.60
	0.080	21.19	18.17	3.02	±4.24	P	0.67
	0.090	23.22	19.96	3.26	±4.64	P	0.74
	0.100	25.11	21.66	3.45	±5.02	P	0.80
	0.15	34.29	28.80	5.49	±6.86	P	1.07
	0.17	36.50	31.06	5.44	±7.30	P	1.15
	0.20	39.12	33.91	5.21	±7.82	P	1.25
	0.25	42.18	37.50	4.68	±8.44	P	1.39
	0.30	44.17	40.04	4.13	±8.83	P	1.48
	0.35	45.52	41.85	3.67	±9.10	P	1.55
	0.40	46.46	43.18	3.28	±9.29	P	1.60
	0.50	47.65	44.93	2.72	±9.53	P	1.66
	0.60	48.33	46.00	2.33	±9.67	P	1.70
	0.70	48.76	46.67	2.09	±9.75	P	1.73
	0.80	49.04	47.12	1.92	±9.81	P	1.74
	0.90	49.24	47.45	1.79	±9.85	P	1.76
	1.00	49.38	47.68	1.70	±9.88	P	1.76
	1.20	49.57	48.02	1.55	±9.91	P	1.78
	1.50	49.72	48.28	1.44	±9.94	P	1.79
	2.00	49.84	48.49	1.35	±9.97	P	1.79
	2.50	49.90	48.58	1.32	±9.98	P	1.80
	3.00	49.93	48.64	1.29	±9.99	P	1.80
	4.00	49.96	48.68	1.28	±9.99	P	1.80
	5.00	49.98	48.70	1.28	±10.00	P	1.80
	7.00	49.99	48.79	1.20	±10.00	P	1.81
	10.00	49.99	48.42	1.57	±10.00	P	1.79
	15.00	50.00	48.24	1.76	±10.00	P	1.79
	20.00	50.00	47.98	2.02	±10.00	P	1.78
	30.00	50.00	46.90	3.10	±10.00	P	1.74





## 3阻抗(Impedance)

Line	频率 (Frequency) (MHz)	标称值 (Nominal) ( $\Omega$ )	标准值 (Reference) ( $\Omega$ )	误差 (Error) ( $\Omega$ )	允许误差 (Limit) ( $\Omega$ )	结论 (Pass/Fail)	$U$ ( $k=2$ ) ( $\Omega$ )
L1	0.009	5.22	5.75	-0.53	$\pm 1.04$	P	0.21
	0.015	6.22	5.76	0.46	$\pm 1.24$	P	0.21
	0.020	7.25	6.44	0.81	$\pm 1.45$	P	0.24
	0.025	8.38	7.33	1.05	$\pm 1.68$	P	0.27
	0.030	9.56	8.26	1.30	$\pm 1.91$	P	0.31
	0.040	11.99	10.25	1.74	$\pm 2.40$	P	0.38
	0.050	14.41	12.23	2.18	$\pm 2.88$	P	0.45
	0.060	16.77	14.20	2.57	$\pm 3.35$	P	0.53
	0.070	19.04	16.12	2.92	$\pm 3.81$	P	0.60
	0.080	21.19	17.97	3.22	$\pm 4.24$	P	0.67
	0.090	23.22	19.74	3.48	$\pm 4.64$	P	0.73
	0.100	25.11	21.42	3.69	$\pm 5.02$	P	0.79
	0.15	34.29	28.52	5.77	$\pm 6.86$	P	1.06
	0.17	36.50	30.78	5.72	$\pm 7.30$	P	1.14
	0.20	39.12	33.62	5.50	$\pm 7.82$	P	1.24
	0.25	42.18	37.24	4.94	$\pm 8.44$	P	1.38
	0.30	44.17	39.80	4.37	$\pm 8.83$	P	1.47
	0.35	45.52	41.64	3.88	$\pm 9.10$	P	1.54
	0.40	46.46	42.99	3.47	$\pm 9.29$	P	1.59
	0.50	47.65	44.77	2.88	$\pm 9.53$	P	1.66
	0.60	48.33	45.86	2.47	$\pm 9.67$	P	1.70
	0.70	48.76	46.56	2.20	$\pm 9.75$	P	1.72
	0.80	49.04	47.04	2.00	$\pm 9.81$	P	1.74
	0.90	49.24	47.37	1.87	$\pm 9.85$	P	1.75
	1.00	49.38	47.61	1.77	$\pm 9.88$	P	1.76
	1.20	49.57	47.96	1.61	$\pm 9.91$	P	1.77
	1.50	49.72	48.25	1.47	$\pm 9.94$	P	1.79
	2.00	49.84	48.48	1.36	$\pm 9.97$	P	1.79
	2.50	49.90	48.59	1.31	$\pm 9.98$	P	1.80
	3.00	49.93	48.66	1.27	$\pm 9.99$	P	1.80
	4.00	49.96	48.73	1.23	$\pm 9.99$	P	1.80
	5.00	49.98	48.79	1.19	$\pm 10.00$	P	1.81
	7.00	49.99	48.97	1.02	$\pm 10.00$	P	1.81
	10.00	49.99	48.84	1.15	$\pm 10.00$	P	1.81
	15.00	50.00	48.95	1.05	$\pm 10.00$	P	1.81
	20.00	50.00	49.07	0.93	$\pm 10.00$	P	1.82
	30.00	50.00	49.35	0.65	$\pm 10.00$	P	1.83



## 4 相位(Phase)

线路 (Line)	频率 (Frequency)	标称值 (Nominal)	标准值 (Reference)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U (k=2)
	(MHz)	(°)	(°)	(°)	(°)		(°)
N	0.009	26.55	21.60	4.95	±11.50	P	0.90
	0.015	38.41	31.10	7.31	±11.50	P	1.29
	0.020	44.97	39.20	5.77	±11.50	P	1.63
	0.025	49.39	44.60	4.79	±11.50	P	1.86
	0.030	52.33	48.60	3.73	±11.50	P	2.02
	0.040	55.43	52.80	2.63	±11.50	P	2.20
	0.050	56.40	54.90	1.5	±11.50	P	2.29
	0.060	56.23	55.60	0.63	±11.50	P	2.31
	0.070	55.40	55.40	0.00	±11.50	P	2.31
	0.080	54.19	54.80	-0.61	±11.50	P	2.28
	0.090	52.77	53.80	-1.03	±11.50	P	2.24
	0.100	51.22	52.70	-1.48	±11.50	P	2.19
	0.150	46.70	46.30	0.40	±11.50	P	1.93
	0.170	43.11	43.70	-0.59	±11.50	P	1.82
	0.200	38.51	40.20	-1.69	±11.50	P	1.67
	0.250	32.48	35.00	-2.52	±11.50	P	1.46
	0.300	27.95	30.80	-2.85	±11.50	P	1.28
	0.350	24.45	27.40	-2.95	±11.50	P	1.14
	0.400	21.70	24.60	-2.90	±11.50	P	1.02
	0.500	17.66	20.30	-2.64	±11.50	P	0.85
	0.600	14.86	17.30	-2.44	±11.50	P	0.72
	0.700	12.81	15.00	-2.19	±11.50	P	0.62
	0.800	11.25	13.20	-1.95	±11.50	P	0.55
	0.900	10.03	11.90	-1.87	±11.50	P	0.50
	1.000	9.04	10.70	-1.66	±11.50	P	0.45
	1.200	7.56	9.00	-1.44	±11.50	P	0.37
	1.500	6.06	7.30	-1.24	±11.50	P	0.30
	2.000	4.55	5.60	-1.05	±11.50	P	0.23
	2.500	3.64	4.50	-0.86	±11.50	P	0.19
	3.000	3.04	3.90	-0.86	±11.50	P	0.16
	4.000	2.28	3.00	-0.72	±11.50	P	0.13
	5.000	1.82	2.60	-0.78	±11.50	P	0.11
	7.000	1.30	2.10	-0.80	±11.50	P	0.09
	10.000	0.91	2.10	-1.19	±11.50	P	0.09
	15.000	0.61	1.70	-1.09	±11.50	P	0.07
	20.000	0.46	2.50	-2.04	±11.50	P	0.10
	30.000	0.30	2.80	-2.50	±11.50	P	0.12



## 4 相位(Phase)

线路 (Line)	频率 (Frequency) (MHz)	标称值 (Nominal) (°)	标准值 (Reference) (°)	误差 (Error) (°)	允许误差 (Limit) (°)	结论 (Pass/Fail)	U (k=2) (°)
L1	0.009	26.55	21.50	5.05	±11.50	P	0.90
	0.015	38.41	30.60	7.81	±11.50	P	1.27
	0.020	44.97	38.80	6.17	±11.50	P	1.62
	0.025	49.39	44.20	5.19	±11.50	P	1.84
	0.030	52.33	48.10	4.23	±11.50	P	2.00
	0.040	55.43	52.50	2.93	±11.50	P	2.19
	0.050	56.40	54.70	1.70	±11.50	P	2.28
	0.060	56.23	55.40	0.83	±11.50	P	2.31
	0.070	55.40	55.30	0.1	±11.50	P	2.30
	0.080	54.19	54.70	-0.51	±11.50	P	2.28
	0.090	52.77	53.80	-1.03	±11.50	P	2.24
	0.100	51.22	52.70	-1.48	±11.50	P	2.19
	0.15	46.70	46.50	0.20	±11.50	P	1.94
	0.17	43.11	44.00	-0.89	±11.50	P	1.83
	0.20	38.51	40.50	-1.99	±11.50	P	1.69
	0.25	32.48	35.30	-2.82	±11.50	P	1.47
	0.30	27.95	31.10	-3.15	±11.50	P	1.29
	0.35	24.45	27.70	-3.25	±11.50	P	1.15
	0.40	21.70	24.90	-3.20	±11.50	P	1.04
	0.50	17.66	20.70	-3.04	±11.50	P	0.86
	0.60	14.86	17.60	-2.74	±11.50	P	0.73
	0.70	12.81	15.30	-2.49	±11.50	P	0.64
	0.80	11.25	13.60	-2.35	±11.50	P	0.57
	0.90	10.03	12.20	-2.17	±11.50	P	0.51
	1.00	9.04	11.10	-2.06	±11.50	P	0.46
	1.20	7.56	9.40	-1.84	±11.50	P	0.39
	1.50	6.06	7.70	-1.64	±11.50	P	0.32
	2.00	4.55	6.00	-1.45	±11.50	P	0.25
	2.50	3.64	5.10	-1.46	±11.50	P	0.21
	3.00	3.04	4.50	-1.46	±11.50	P	0.19
	4.00	2.28	3.80	-1.52	±11.50	P	0.16
	5.00	1.82	3.50	-1.68	±11.50	P	0.15
	7.00	1.30	3.30	-2.00	±11.50	P	0.14
	10.00	0.91	3.20	-2.29	±11.50	P	0.13
	15.00	0.61	3.90	-3.29	±11.50	P	0.16
	20.00	0.46	5.80	-5.34	±11.50	P	0.24
	30.00	0.30	6.90	-6.60	±11.50	P	0.29



## 5 隔离度(Insulation)

Line	频率 (Frequency) (MHz)	标准值 (Reference) (dB)	允许范围 (Limit) (dB)	结论 (Pass/Fail)	U (k=2) (dB)
N	0.009	33.5	≥0.00	P	0.73
	0.015	44.0	≥18.6	P	0.73
	0.02	49.8	≥23.8	P	0.73
	0.025	54.2	≥28.1	P	0.73
	0.03	57.7	≥34.8	P	0.73
	0.04	62.1	≥39.9	P	0.73
	0.05	63.2	≥40.0	P	0.73
	0.06	62.7	≥40.0	P	0.73
	0.07	61.5	≥40.0	P	0.73
	0.08	60.9	≥40.0	P	0.73
	0.09	60.2	≥40.0	P	0.73
	0.1	59.8	≥40.0	P	0.73
	0.15	58.1	≥40.0	P	0.73
	0.17	57.8	≥40.0	P	0.73
	0.2	57.4	≥40.0	P	0.73
	0.25	57.0	≥40.0	P	0.73
	0.3	56.8	≥40.0	P	0.73
	0.35	56.7	≥40.0	P	0.73
	0.4	56.6	≥40.0	P	0.73
	0.5	56.6	≥40.0	P	0.73
	0.6	56.5	≥40.0	P	0.73
	0.7	56.6	≥40.0	P	0.74
	0.8	56.6	≥40.0	P	0.74
	0.9	56.6	≥40.0	P	0.74
	1	56.6	≥40.0	P	0.74
	1.2	56.9	≥40.0	P	0.74
	1.5	57.1	≥40.0	P	0.74
	2	57.7	≥40.0	P	0.74
	2.5	58.4	≥40.0	P	0.74
	3	59.2	≥40.0	P	0.74
	4	61.2	≥40.0	P	0.75
	5	63.1	≥40.0	P	0.75
	7	66.8	≥40.0	P	0.76
	10	71.8	≥40.0	P	0.77
	15	85.2	≥40.0	P	0.79
	20	83.3	≥40.0	P	0.81
	30	67.9	≥40.0	P	0.85



## 5 隔离度(Insulation)

Line	频率 (Frequency) (MHz)	标准值 (Reference) (dB)	允许范围 (Limit) (dB)	结论 (Pass/Fail)	U (k=2) (dB)
L1	0.009	33.2	≥0.00	P	0.73
	0.015	43.9	≥18.6	P	0.73
	0.020	49.7	≥23.8	P	0.73
	0.025	54.3	≥28.1	P	0.73
	0.030	58.2	≥34.8	P	0.73
	0.040	63.6	≥39.9	P	0.73
	0.050	64.9	≥40.0	P	0.73
	0.060	64.5	≥40.0	P	0.73
	0.070	63.4	≥40.0	P	0.73
	0.080	62.6	≥40.0	P	0.73
	0.090	61.8	≥40.0	P	0.73
	0.100	61.2	≥40.0	P	0.73
	0.150	59.7	≥40.0	P	0.73
	0.170	59.2	≥40.0	P	0.73
	0.200	58.9	≥40.0	P	0.73
	0.250	58.4	≥40.0	P	0.73
	0.300	58.2	≥40.0	P	0.73
	0.350	58.0	≥40.0	P	0.73
	0.400	57.9	≥40.0	P	0.73
	0.500	57.7	≥40.0	P	0.73
	0.600	57.7	≥40.0	P	0.73
	0.700	57.6	≥40.0	P	0.74
	0.800	57.6	≥40.0	P	0.74
	0.900	57.7	≥40.0	P	0.74
	1.000	57.7	≥40.0	P	0.74
	1.200	57.7	≥40.0	P	0.74
	1.500	57.7	≥40.0	P	0.74
	2.000	58.1	≥40.0	P	0.74
	2.500	58.7	≥40.0	P	0.74
	3.000	59.3	≥40.0	P	0.74
	4.000	60.6	≥40.0	P	0.75
	5.000	62.1	≥40.0	P	0.75
	7.000	64.9	≥40.0	P	0.76
	10.000	68.8	≥40.0	P	0.77
	15.000	81.8	≥40.0	P	0.79
	20.000	79.9	≥40.0	P	0.81
	30.000	63.0	≥40.0	P	0.85

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