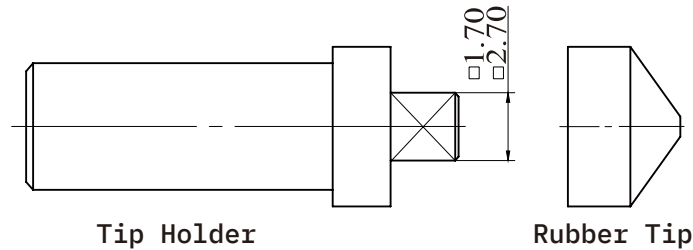




Rubber Tip Selection

Rubber tips are designed for semiconductor chip pick-up applications and are available in multiple dimensions to support different substrate sizes, suction requirements, and process conditions. Suitable for both standard and high-temperature assembly processes, the minimum available hole diameter is 0.08 mm. Tip holders are used for rubber tip installation and alignment. Manufactured primarily from stainless steel, various holder dimensions are available for compatibility with different bonding and die handling platforms.

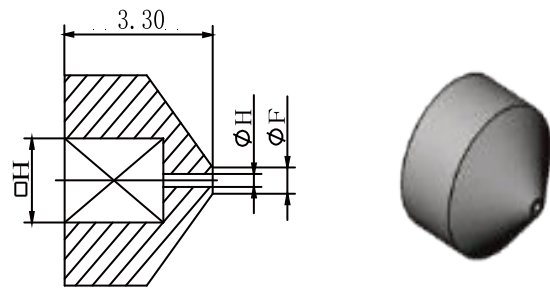


Installation Size:

H1 = 1.7 × 1.7 mm

H2 = 2.7 × 2.7 mm

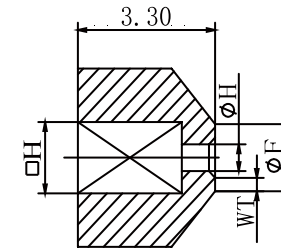
Special installation dimensions are available upon request.



Normal temperature: CTR-XXX
High temperature: HCTR-XXX

Part No.	F mm	H mm	Holder
CTR-006	0.15	0.10	H1
CTR-007	0.18	0.10	H1
CTR-008	0.20	0.08	H1
CTR-008	0.20	0.10	H1
CTR-008	0.20	0.13	H1
CTR-010	0.25	0.08	H1
CTR-010	0.25	0.10	H1
CTR-010	0.25	0.15	H1
CTR-012	0.30	0.08	H1
CTR-012	0.30	0.10	H1
CTR-012	0.30	0.13	H1
CTR-012	0.30	0.15	H1
CTR-013	0.33	0.13	H1
CTR-013	0.33	0.15	H1

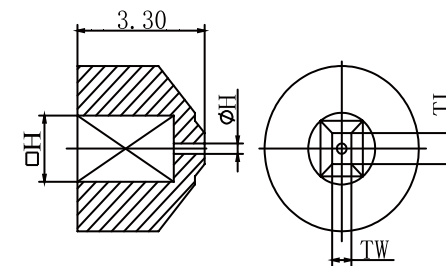
Part No.	F mm	H mm	Holder
CTR-014	0.36	0.15	H1
CTR-015	0.38	0.15	H1
CTR-016	0.41	0.13	H1
CTR-016	0.41	0.15	H1
CTR-016	0.41	0.20	H1
CTR-018	0.46	0.20	H1
CTR-020	0.51	0.25	H1
CTR-025	0.64	0.30	H1
CTR-030	0.76	0.35	H1
CTR-035	0.89	0.30	H1
CTR-040	1.02	0.40	H1
CTR-045	1.14	0.50	H1
CTR-050	1.27	0.60	H1
CTR-060	1.52	0.70	H1



Normal temperature: CTR-XXX
High temperature: HCTR-XXX

Part No.	F mm	H mm	WT mm	Holder
CTR-070	1.78	1.00	0.30	H1
CTR-080	2.03	1.00	0.30	H1
CTR-090	2.29	1.00	0.30	H1
CTR-100	2.54	1.00	0.30	H1
CTR-110	2.79	1.00	0.40	H1
CTR-120	3.05	1.00	0.40	H1
CTR-130	3.30	1.00	0.40	H1
CTR-140	3.56	1.00	0.40	H1
CTR-150	3.81	1.00	0.40	H1
CTR-160	4.06	1.00	0.40	H1
CTR-170	4.32	1.00	0.40	H1
CTR-180	4.57	1.00	0.40	H1

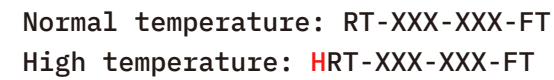
Part No.	F mm	H mm	WT mm	Holder
CTR-190	4.83	1.00	0.40	H1
CTR-200	5.08	1.00	0.40	H1
CTR-220	5.59	1.50	0.60	H2
CTR-240	6.10	1.50	0.60	H2
CTR-250	6.35	1.50	0.60	H2
CTR-260	6.60	1.50	0.60	H2
CTR-270	6.86	1.50	0.60	H2
CTR-280	7.11	1.50	0.60	H2
CTR-300	7.62	1.50	0.60	H2
CTR-315	8.00	1.50	0.60	H2
CTR-320	8.13	1.50	0.60	H2
CTR-390	9.91	1.50	0.60	H2



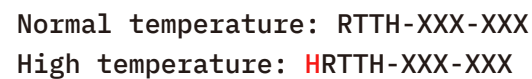
Normal temperature: RTN-XXX-XXX-FT
High temperature: HRTN-XXX-XXX-FT

Part No.	TW mm	TL mm	H mm	Holder
RTN-008-008-FT	0.20	0.20	0.13	H1
RTN-009-009-FT	0.23	0.23	0.13	H1
RTN-010-010-FT	0.25	0.25	0.13	H1
RTN-010-016-FT	0.25	0.41	0.15	H1
RTN-010-020-FT	0.25	0.51	0.15	H1
RTN-010-025-FT	0.25	0.64	0.15	H1
RTN-012-012-FT	0.30	0.30	0.15	H1
RTN-012-016-FT	0.30	0.41	0.15	H1
RTN-012-020-FT	0.30	0.51	0.15	H1

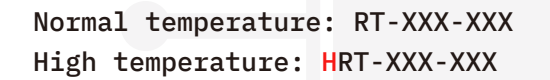
Part No.	TW mm	TL mm	H mm	Holder
RTN-012-030-FT	0.30	0.76	0.15	H1
RTN-015-015-FT	0.38	0.38	0.20	H1
RTN-015-020-FT	0.38	0.51	0.20	H1
RTN-015-030-FT	0.38	0.76	0.20	H1
RTN-015-035-FT	0.38	0.89	0.20	H1
RTN-016-016-FT	0.41	0.41	0.20	H1
RTN-018-020-FT	0.46	0.51	0.20	H1
RTN-018-030-FT	0.46	0.76	0.20	H1
RTN-018-035-FT	0.46	0.89	0.20	H1



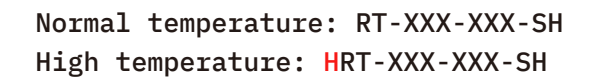
Part No.	TW mm	TL mm	H mm	Holder
RT-080-160-FT	2.03	4.06	1.00	H1
RT-090-090-FT	2.29	2.29	1.00	H1
RT-090-110-FT	2.29	2.79	1.00	H1
RT-100-100-FT	2.54	2.54	1.00	H1
RT-110-110-FT	2.79	2.79	1.00	H1
RT-120-120-FT	3.05	3.05	1.00	H1
RT-120-140-FT	3.05	3.56	1.00	H1
RT-130-130-FT	3.30	3.30	1.00	H1
RT-140-140-FT	3.56	3.56	1.00	H1
RT-150-150-FT	3.81	3.81	1.00	H1
RT-160-160-FT	4.06	4.06	1.00	H1
RT-170-170-FT	4.32	4.32	1.00	H1
RT-180-180-FT	4.57	4.57	1.00	H1
RT-190-190-FT	4.83	4.83	1.00	H1
RT-200-200-FT	5.08	5.08	1.00	H1
RT-210-210-FT	5.33	5.33	1.50	H2



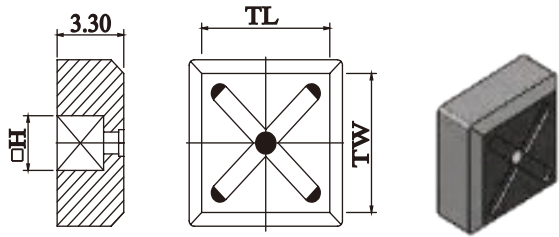
Part No.	TW mm	HW mm	TL mm	HL mm	Holder
RTTH-030-060	0.76	0.36	1.52	1.12	H1
RTTH-030-090	0.76	0.35	2.29	1.15	H1
RTTH-030-100	0.76	0.40	2.54	1.10	H1
RTTH-035-050	0.89	0.50	1.27	0.80	H1
RTTH-035-070	0.89	0.50	1.78	0.50	H1
RTTH-035-080	0.89	0.33	2.03	1.00	H1
RTTH-035-090	0.89	0.40	2.29	1.00	H1
RTTH-040-040	1.02	0.60	1.02	0.60	H1
RTTH-040-060	1.02	0.41	1.52	0.92	H1
RTTH-040-070	1.02	0.41	1.78	0.97	H1
RTTH-040-100	1.02	0.45	2.54	0.60	H1
RTTH-050-050	1.27	0.67	1.27	0.67	H1
RTTH-050-060	1.27	0.67	1.52	0.92	H1
RTTH-050-070	1.27	0.67	1.78	1.17	H1



Part No.	TW mm	TL mm	H mm	Holder
RT-070-100	1.78	2.54	1.00	H1
RT-070-140	1.78	3.56	1.00	H1
RT-080-080	2.03	2.03	1.00	H1
RT-080-090	2.03	2.29	1.00	H1
RT-080-120	2.03	3.05	1.00	H1
RT-080-180	2.03	4.57	1.00	H1
RT-090-090	2.29	2.29	1.00	H1
RT-090-110	2.29	2.79	1.00	H1
RT-090-180	2.29	4.57	1.00	H1
RT-100-100	2.54	2.54	1.00	H1
RT-100-130	2.54	3.30	1.00	H1
RT-100-150	2.54	3.81	1.00	H1
RT-110-120	2.79	3.05	1.00	H1
RT-110-170	2.79	4.32	1.00	H1
RT-120-120	3.05	3.05	1.00	H1
RT-120-130	3.05	3.30	1.00	H1

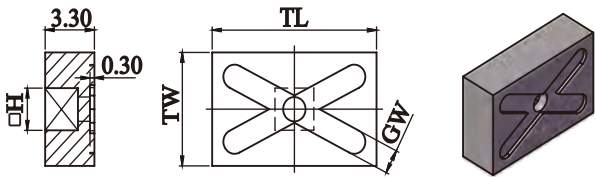


Part No.	TW mm	GW mm	TL mm	GL mm	Holder
RT-070-140-SH	1.78	1.27	3.56	3.05	H1
RT-070-150-SH	1.78	1.17	3.81	3.21	H1
RT-080-080-SH	2.03	1.43	2.03	1.43	H1
RT-080-100-SH	2.03	1.53	2.54	2.04	H1
RT-080-110-SH	2.03	1.43	2.79	2.19	H1
RT-090-090-SH	2.29	1.68	2.29	1.68	H1
RT-090-100-SH	2.29	1.78	2.54	2.04	H1
RT-090-110-SH	2.29	1.78	2.79	2.29	H1
RT-090-130-SH	2.29	1.78	3.30	2.80	H1
RT-090-150-SH	2.29	1.78	3.81	3.31	H1
RT-090-180-SH	2.29	1.60	4.57	3.60	H1
RT-100-100-SH	2.54	1.94	2.54	1.94	H1
RT-100-110-SH	2.54	1.94	2.79	2.20	H1



Normal temperature: RTX-XXX-XXX
High temperature: HRTX-XXX-XXX

Part No.	TW mm	TL mm	Holder	Part No.	TW mm	TL mm	Holder
RTX-100-250	2.54	6.35	H2	RTX-200-300	5.08	7.62	H2
RTX-100-300	2.54	7.62	H2	RTX-220-240	5.59	6.10	H2
RTX-120-120	3.05	3.05	H2	RTX-236-275	5.99	6.99	H2
RTX-150-200	3.81	5.08	H2	RTX-236-315	5.99	8.00	H2
RTX-150-250	3.81	6.35	H2	RTX-250-250	6.35	6.35	H2
RTX-150-300	3.81	7.62	H2	RTX-250-300	6.35	7.62	H2
RTX-160-350	4.06	8.89	H2	RTX-256-570	6.50	14.48	H2
RTX-180-260	4.57	6.60	H2	RTX-275-275	6.99	6.99	H2
RTX-180-350	4.57	8.89	H2	RTX-275-475	6.99	12.07	H2
RTX-200-200	5.08	5.08	H2	RTX-300-300	7.62	7.62	H2
RTX-200-250	5.08	6.35	H2	RTX-300-350	7.62	8.89	H2



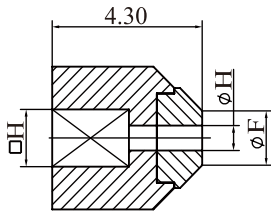
Normal temperature: RTX/RTXWZ-XXX-XXX
High temperature: HRTX/HRTXWZ-XXX-XXX

Part No.	TW mm	TL mm	GW mm	Holder	Part No.	TW mm	TL mm	GW mm	Holder
RTX-180-200	4.57	5.08	1.00	H2	RTX-410-430	10.41	10.92	1.50	H2
RTX-200-210	5.08	5.33	1.50	H2	RTX-410-490	10.41	12.45	1.50	H2
RTX-220-220	5.59	5.59	1.50	H2	RTX-420-420	10.67	10.67	1.50	H2
RTX-220-630	5.59	16.00	1.50	H2	RTX-440-440	11.18	11.18	1.50	H2
RTX-240-240	6.10	6.10	1.50	H2	RTX-460-460	11.68	11.68	1.50	H2
RTX-240-290	6.10	7.37	1.50	H2	RTX-500-520	12.70	13.21	1.50	H2
RTX-260-260	6.60	6.60	1.50	H2	RTX-630-670	16.00	17.02	1.50	H2
RTX-270-290	6.86	7.37	1.50	H2	RTXWZ-217-630(H2)	5.50	16.00	1.50	H2
RTX-280-280	7.11	7.11	1.50	H2	RTXWZ-236-236(H2)	6.00	6.00	1.50	H2
RTX-310-310	7.87	7.87	1.50	H2	RTXWZ-236-315(H2)	6.00	8.00	1.50	H2
RTX-320-320	8.13	8.13	1.50	H2	RTXWZ-276-433(H2)	7.00	11.00	1.50	H2
RTX-340-340	8.64	8.64	1.50	H2	RTXWZ-315-472(H2)	8.00	12.00	1.50	H2
RTX-340-380	8.64	9.65	1.50	H2	RTXWZ-354-354(H2)	9.00	9.00	1.50	H2
RTX-360-360	9.14	9.14	1.50	H2	RTXWZ-354-591(H2)	9.00	15.00	1.50	H2
RTX-370-390	9.40	9.91	1.50	H2	RTXWZ-394-591(H2)	10.00	15.00	1.50	H2
RTX-380-380	9.65	9.65	1.50	H2	RTXWZ-472-472(H2)	12.00	12.00	1.50	H2
RTX-400-400	10.16	10.16	1.50	H2	RTXWZ-571-571(H2)	14.50	14.50	1.50	H2



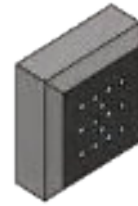
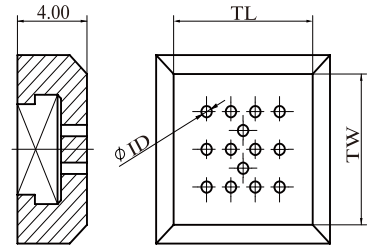
Normal temperature: RTWZ-XXX-XXX
High temperature: HRTWZ-XXX-XXX

Part No.	TW mm	TL mm	WT mm	Holder	Part No.	F mm	H mm	Holder
RTWZ-217-630(H2,WT1.0)	5.50	16.00	1.00	H2	CTR-010(ED2.0,IH1.1,45D)	0.25	0.10	Other
RTWZ-236-236(H2,WT0.5)	6.00	6.00	0.50	H2	CTR-012(ED2.0,IH1.1,45D)	0.30	0.15	Other
RTWZ-236-315(H2,WT0.5)	6.00	8.00	0.50	H2	CTR-018(ED2.0,IH1.1,45D)	0.46	0.20	Other
RTWZ-276-433(H2,WT1.0)	7.00	11.00	1.00	H2	CTR-020(ED2.0,IH1.1,45D)	0.50	0.25	Other
RTWZ-315-472(H2,WT1.0)	8.00	12.00	1.00	H2	CTR-025(ED2.0,IH1.1,45D)	0.64	0.30	Other
RTWZ-354-354(H2,WT1.0)	9.00	9.00	1.00	H2	CTR-030(ED2.0,IH1.1,45D)	0.75	0.35	Other
RTWZ-354-591(H2,WT1.0)	9.00	15.00	1.00	H2	CTR-040(ED2.0,IH1.1,45D)	1.00	0.50	Other
RTWZ-394-591(H2,WT1.0)	10.00	15.00	1.00	H2	CTR-050(ED2.0,IH1.1,45D)	1.27	0.60	Other
RTWZ-472-472(H2,WT1.0)	12.00	12.00	1.00	H2	CTR-060(ED2.0,IH1.1,45D)	1.50	0.80	Other
RTWZ-571-571(H2,WT1.0)	14.50	14.50	1.00	H2	CTR-090(ED2.5,IH1.1,45D)	2.29	0.80	Other



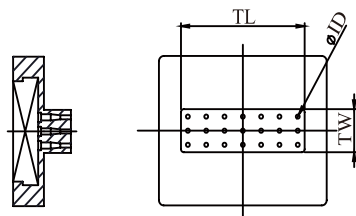
Normal temperature: CTR-XXX-AS

Part No.	F mm	H mm	Holder
CTR-010-AS	0.25	0.10	H1
CTR-012-AS	0.30	0.15	H1
CTR-014-AS	0.35	0.15	H1
CTR-016-AS	0.40	0.20	H1
CTR-018-AS	0.45	0.20	H1
CTR-020-AS	0.50	0.25	H1
CTR-022-AS	0.55	0.25	H1
CTR-024-AS	0.60	0.30	H1
CTR-026-AS	0.65	0.30	H1
CTR-028-AS	0.70	0.35	H1
CTR-030-AS	0.75	0.35	H1
CTR-032-AS	0.80	0.40	H1
CTR-034-AS	0.85	0.40	H1
CTR-036-AS	0.90	0.45	H1
CTR-038-AS	0.95	0.45	H1
CTR-040-AS	1.00	0.50	H1



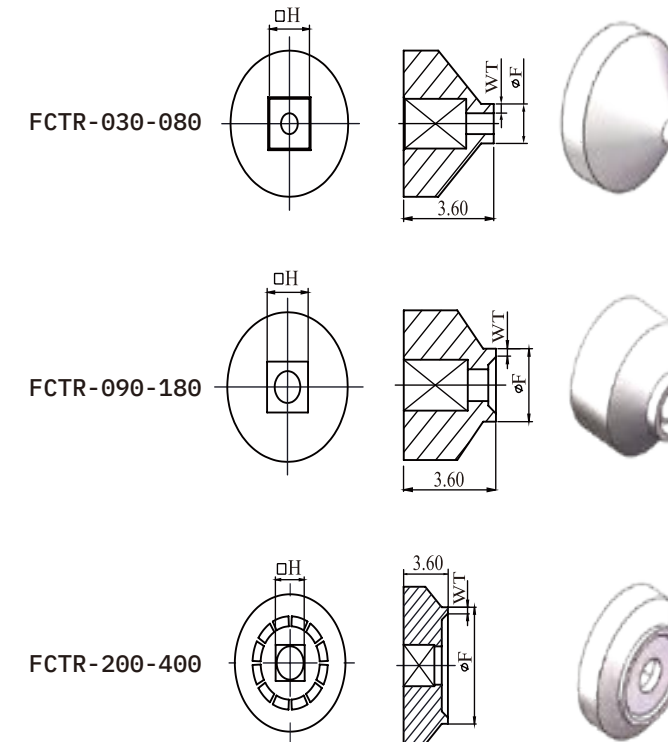
Normal temperature: RT-XXX-XXX(IDxN)
High temperature: **H**RT-XXX-XXX(IDxN)

Part No.	TW mm	TL mm	ID mm	Holder
RT-112-118(ID0.5x9)	2.84	3.00	0.50	Other
RT-112-118(ID0.6x9)	2.84	3.00	0.60	Other
RT-200-200(S7x7,ID0.7x9)	5.00	5.00	0.70	Other
RT-295-320(S7x7,ID0.8x9)	7.49	8.13	0.80	Other
RT-315-315(ID0.6x14)	8.00	8.00	0.60	Other
RT-370-490(ID0.5x20)	9.40	12.45	0.50	Other

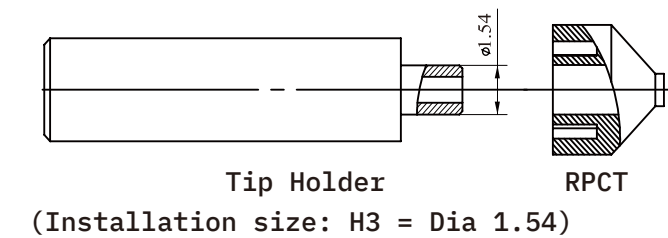


Normal temperature: HRG-XXX-XXX-XX
High temperature: **H**HRG-XXX-XXX-XX

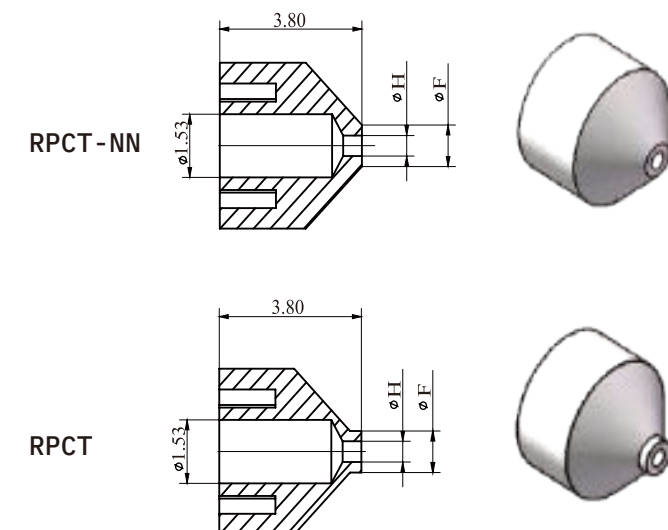
Part No.	TW mm	TL mm	ID mm	Holder
HRG-0413-1283-01	4.13	12.83	0.40	Other
HRG-0459-1272-01	4.59	12.72	0.40	Other
HRG-0468-0919-01	4.68	9.19	0.40	Other
HRG-0539-1000-01	5.39	10.00	0.40	Other
HRG-0540-0861-01	5.40	8.61	0.40	Other
HRG-0544-0710-01	5.44	7.10	0.40	Other
HRG-0650-0954-01	6.50	9.54	0.40	Other
HRG-0653-1096-01	6.53	10.96	0.40	Other
HRG-0666-0796-01	6.66	7.96	0.40	Other
HRG-0738-1270-01	7.38	12.70	0.40	Other
HRG-0750-1094-01	7.50	10.94	0.40	Other
HRG-0791-0791-01	7.91	7.91	0.40	Other
HRG-0831-0957-01	8.31	9.57	0.40	Other
HRG-0834-1437-01	8.34	14.37	0.40	Other
HRG-0958-1218-01	9.58	12.18	0.40	Other



Part No.	F mm	WT mm	Holder
FCTR-030	0.76	0.13	H1
FCTR-050	1.27	0.30	H1
FCTR-060	1.52	0.30	H1
FCTR-070	1.78	0.30	H1
FCTR-080	2.03	0.30	H1
FCTR-090	2.29	0.25	H1
FCTR-100	2.54	0.25	H1
FCTR-120	3.04	0.35	H1
FCTR-160	4.06	0.25	H1
FCTR-180	4.57	0.40	H2
FCTR-200	5.08	0.40	H2
FCTR-220	5.59	0.40	H2
FCTR-240	6.10	0.40	H2
FCTR-300	7.62	0.40	H2
FCTR-400	10.16	0.40	H2



Tip Holder
(Installation size: H3 = Dia 1.54)



Part No.	F mm	H mm	Holder
RPCT-012-NN	0.30	0.10	H3
RPCT-015-NN	0.38	0.18	H3
RPCT-018-NN	0.46	0.20	H3
RPCT-020-NN	0.51	0.20	H3
RPCT-025-NN	0.64	0.25	H3
RPCT-008	0.20	0.13	H3
RPCT-012	0.30	0.10	H3
RPCT-015	0.38	0.18	H3
RPCT-018	0.46	0.20	H3
RPCT-020	0.51	0.20	H3
RPCT-025	0.64	0.25	H3
RPCT-030	0.76	0.35	H3
RPCT-040	1.02	0.50	H3
RPCT-045	1.14	0.50	H3
RPCT-050	1.27	0.60	H3
RPCT-060	1.52	1.00	H3
RPCT-070	1.78	1.00	H3
RPCT-080	2.03	1.00	H3
RPCT-090	2.29	1.00	H3
RPCT-100	2.54	1.00	H3
RPCT-120	3.05	1.00	H3
RPCT-130	3.30	1.00	H3
RPCT-140	3.56	1.00	H3
RPCT-150	3.81	1.00	H3
RPCT-160	4.06	1.00	H3