

# Concave Mirror Substrates/Aluminum Concave Mirror Substrates

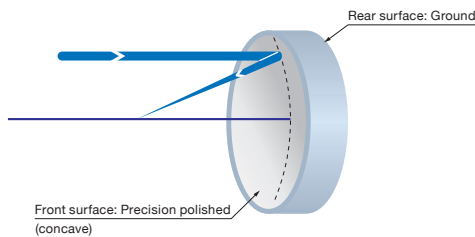
TCBS/TCA/TCAN

RoHS

Coatings on all concave mirror substrate models are available. Pre-coated aluminum concave mirrors are available. These substrates are mainly used as the primary mirror in a reflecting telescope or as reflection mirror of a collimating optical system light-source.

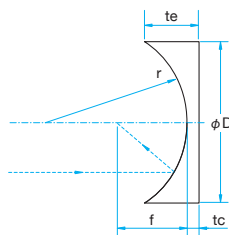


### Schematic



### Outline Drawing

(in mm)



- Tolerance Diameter  $\phi D_{\pm 0.1}$  Thickness  $t_c \pm 0.2$

- Relationship between focal length "f" and the radius of curvature "r" of the concave mirror  $r = 2f$

- Large selection from outer size to radius of curvature is available on our website and in our catalog.
- Contact our Sales Division for your choice of coating specifications.

### Specifications

Material	BK7
Spherical accuracy	$\lambda/2$
Radius Tolerance	$\pm 2\%$
Coating	Substrates: Uncoated Mirrors with Protective layer: Al+MgF <sub>2</sub> Mirrors without Protective layer: Al
Clear aperture	85% of actual aperture
Surface Quality (Scratch-Dig)	Substrates: 20-10 With coating: 40-20
Rear Surface	Ground

### Guide

- ▶ For high power lasers use concave substrates (LCBS) suitable for Laser resonator applications.

### Attention

- ▶ The back side of the substrate has a ground surface; it is not usable for transmission. For transmission we recommend plano concave lenses (SLB-N).
- ▶ For cold-mirror or partial reflection application, please contact our Sales Division for a concave mirror on the back side polished.
- ▶ The outer edge of the concave surface is chamfered, the thickness of the edge varies therefore use the back side of the substrate as datum.

### φ10

Substrates						Mirror coating	
Part Number	Diameter $\phi D$ [mm]	Edge thickness $t_e$ [mm]	Center thickness $t_c$ [mm]	Radius of curvature $r$ [mm]	Focal length $f$ [mm]	With Protective layer Part Number	Without Protective layer Part Number
TCBS-10C05-10	φ10	5	3.7	10	5	TCA-10C05-10	TCAN-10C05-10
TCBS-10C05-15	φ10	5	4.1	15	7.5	TCA-10C05-15	TCAN-10C05-15
TCBS-10C05-20	φ10	5	4.4	20	10	TCA-10C05-20	TCAN-10C05-20
TCBS-10C05-25	φ10	5	4.5	25	12.5	TCA-10C05-25	TCAN-10C05-25
TCBS-10C05-30	φ10	5	4.6	30	15	TCA-10C05-30	TCAN-10C05-30
TCBS-10C05-40	φ10	5	4.7	40	20	TCA-10C05-40	TCAN-10C05-40
TCBS-10C05-50	φ10	5	4.7	50	25	TCA-10C05-50	TCAN-10C05-50
TCBS-10C05-60	φ10	5	4.8	60	30	TCA-10C05-60	TCAN-10C05-60
TCBS-10C05-70	φ10	5	4.8	70	35	TCA-10C05-70	TCAN-10C05-70
TCBS-10C05-80	φ10	5	4.8	80	40	TCA-10C05-80	TCAN-10C05-80
TCBS-10C05-90	φ10	5	4.9	90	45	TCA-10C05-90	TCAN-10C05-90
TCBS-10C05-100	φ10	5	4.9	100	50	TCA-10C05-100	TCAN-10C05-100
TCBS-10C05-120	φ10	5	4.9	120	60	TCA-10C05-120	TCAN-10C05-120
TCBS-10C05-150	φ10	5	4.9	150	75	TCA-10C05-150	TCAN-10C05-150
TCBS-10C05-200	φ10	5	4.9	200	100	TCA-10C05-200	TCAN-10C05-200
TCBS-10C05-250	φ10	5	4.9	250	125	TCA-10C05-250	TCAN-10C05-250
TCBS-10C05-300	φ10	5	5.0	300	150	TCA-10C05-300	TCAN-10C05-300
TCBS-10C05-400	φ10	5	5.0	400	200	TCA-10C05-400	TCAN-10C05-400
TCBS-10C05-500	φ10	5	5.0	500	250	TCA-10C05-500	TCAN-10C05-500
TCBS-10C05-600	φ10	5	5.0	600	300	TCA-10C05-600	TCAN-10C05-600
TCBS-10C05-700	φ10	5	5.0	700	350	TCA-10C05-700	TCAN-10C05-700
TCBS-10C05-800	φ10	5	5.0	800	400	TCA-10C05-800	TCAN-10C05-800
TCBS-10C05-1000	φ10	5	5.0	1000	500	TCA-10C05-1000	TCAN-10C05-1000
TCBS-10C05-1500	φ10	5	5.0	1500	750	TCA-10C05-1500	TCAN-10C05-1500
TCBS-10C05-2000	φ10	5	5.0	2000	1000	TCA-10C05-2000	TCAN-10C05-2000
TCBS-10C05-2500	φ10	5	5.0	2500	1250	TCA-10C05-2500	TCAN-10C05-2500
TCBS-10C05-3000	φ10	5	5.0	3000	1500	TCA-10C05-3000	TCAN-10C05-3000
TCBS-10C05-4000	φ10	5	5.0	4000	2000	TCA-10C05-4000	TCAN-10C05-4000
TCBS-10C05-5000	φ10	5	5.0	5000	2500	TCA-10C05-5000	TCAN-10C05-5000
TCBS-10C05-10000	φ10	5	5.0	10000	5000	TCA-10C05-10000	TCAN-10C05-10000

### Compatible Optic Mounts

LHCM-10, -15 / LHCM-20 / ALHN-25-3RO, -30-3RO / LHCM-40 / ALHN-50-3RO



**φ15 – φ20**

Substrates						Mirror coating	
Part Number	Diameter φD [mm]	Edge thickness te [mm]	Center thickness tc [mm]	Radius of curvature r [mm]	Focal length f [mm]	With Protective layer Part Number	Without Protective layer Part Number
TCBS-15C07-10	φ15	7	3.6	10	5	TCA-15C07-10	TCAN-15C07-10
TCBS-15C07-15	φ15	7	5.0	15	7.5	TCA-15C07-15	TCAN-15C07-15
TCBS-15C05-20	φ15	5	3.5	20	10	TCA-15C05-20	TCAN-15C05-20
TCBS-15C05-25	φ15	5	3.8	25	12.5	TCA-15C05-25	TCAN-15C05-25
TCBS-15C05-30	φ15	5	4.0	30	15	TCA-15C05-30	TCAN-15C05-30
TCBS-15C05-40	φ15	5	4.3	40	20	TCA-15C05-40	TCAN-15C05-40
TCBS-15C05-50	φ15	5	4.4	50	25	TCA-15C05-50	TCAN-15C05-50
TCBS-15C05-60	φ15	5	4.5	60	30	TCA-15C05-60	TCAN-15C05-60
TCBS-15C05-70	φ15	5	4.6	70	35	TCA-15C05-70	TCAN-15C05-70
TCBS-15C05-80	φ15	5	4.6	80	40	TCA-15C05-80	TCAN-15C05-80
TCBS-15C05-90	φ15	5	4.7	90	45	TCA-15C05-90	TCAN-15C05-90
TCBS-15C05-100	φ15	5	4.7	100	50	TCA-15C05-100	TCAN-15C05-100
TCBS-15C05-120	φ15	5	4.8	120	60	TCA-15C05-120	TCAN-15C05-120
TCBS-15C05-150	φ15	5	4.8	150	75	TCA-15C05-150	TCAN-15C05-150
TCBS-15C05-200	φ15	5	4.9	200	100	TCA-15C05-200	TCAN-15C05-200
TCBS-15C05-250	φ15	5	4.9	250	125	TCA-15C05-250	TCAN-15C05-250
TCBS-15C05-300	φ15	5	4.9	300	150	TCA-15C05-300	TCAN-15C05-300
TCBS-15C05-400	φ15	5	4.9	400	200	TCA-15C05-400	TCAN-15C05-400
TCBS-15C05-500	φ15	5	4.9	500	250	TCA-15C05-500	TCAN-15C05-500
TCBS-15C05-600	φ15	5	5.0	600	300	TCA-15C05-600	TCAN-15C05-600
TCBS-15C05-700	φ15	5	5.0	700	350	TCA-15C05-700	TCAN-15C05-700
TCBS-15C05-800	φ15	5	5.0	800	400	TCA-15C05-800	TCAN-15C05-800
TCBS-15C05-1000	φ15	5	5.0	1000	500	TCA-15C05-1000	TCAN-15C05-1000
TCBS-15C05-1500	φ15	5	5.0	1500	750	TCA-15C05-1500	TCAN-15C05-1500
TCBS-15C05-2000	φ15	5	5.0	2000	1000	TCA-15C05-2000	TCAN-15C05-2000
TCBS-15C05-2500	φ15	5	5.0	2500	1250	TCA-15C05-2500	TCAN-15C05-2500
TCBS-15C05-3000	φ15	5	5.0	3000	1500	TCA-15C05-3000	TCAN-15C05-3000
TCBS-15C05-4000	φ15	5	5.0	4000	2000	TCA-15C05-4000	TCAN-15C05-4000
TCBS-15C05-5000	φ15	5	5.0	5000	2500	TCA-15C05-5000	TCAN-15C05-5000
TCBS-15C05-10000	φ15	5	5.0	10000	5000	TCA-15C05-10000	TCAN-15C05-10000
TCBS-15C05-30000	φ15	5	5.0	30000	15000	TCA-15C05-30000	TCAN-15C05-30000
TCBS-20C08-15	φ20	8	4.2	15	7.5	TCA-20C08-15	TCAN-20C08-15
TCBS-20C08-20	φ20	8	5.3	20	10	TCA-20C08-20	TCAN-20C08-20
TCBS-20C08-25	φ20	8	5.9	25	12.5	TCA-20C08-25	TCAN-20C08-25
TCBS-20C05-30	φ20	5	3.3	30	15	TCA-20C05-30	TCAN-20C05-30
TCBS-20C05-40	φ20	5	3.7	40	20	TCA-20C05-40	TCAN-20C05-40
TCBS-20C05-50	φ20	5	4.0	50	25	TCA-20C05-50	TCAN-20C05-50
TCBS-20C05-60	φ20	5	4.2	60	30	TCA-20C05-60	TCAN-20C05-60
TCBS-20C05-70	φ20	5	4.3	70	35	TCA-20C05-70	TCAN-20C05-70
TCBS-20C05-80	φ20	5	4.4	80	40	TCA-20C05-80	TCAN-20C05-80
TCBS-20C05-90	φ20	5	4.4	90	45	TCA-20C05-90	TCAN-20C05-90
TCBS-20C05-100	φ20	5	4.5	100	50	TCA-20C05-100	TCAN-20C05-100
TCBS-20C05-120	φ20	5	4.6	120	60	TCA-20C05-120	TCAN-20C05-120
TCBS-20C05-150	φ20	5	4.7	150	75	TCA-20C05-150	TCAN-20C05-150
TCBS-20C05-200	φ20	5	4.7	200	100	TCA-20C05-200	TCAN-20C05-200
TCBS-20C05-250	φ20	5	4.8	250	125	TCA-20C05-250	TCAN-20C05-250
TCBS-20C05-300	φ20	5	4.8	300	150	TCA-20C05-300	TCAN-20C05-300
TCBS-20C05-400	φ20	5	4.9	400	200	TCA-20C05-400	TCAN-20C05-400
TCBS-20C05-500	φ20	5	4.9	500	250	TCA-20C05-500	TCAN-20C05-500
TCBS-20C05-600	φ20	5	4.9	600	300	TCA-20C05-600	TCAN-20C05-600
TCBS-20C05-700	φ20	5	4.9	700	350	TCA-20C05-700	TCAN-20C05-700
TCBS-20C05-800	φ20	5	4.9	800	400	TCA-20C05-800	TCAN-20C05-800
TCBS-20C05-1000	φ20	5	5.0	1000	500	TCA-20C05-1000	TCAN-20C05-1000
TCBS-20C05-1500	φ20	5	5.0	1500	750	TCA-20C05-1500	TCAN-20C05-1500
TCBS-20C05-2000	φ20	5	5.0	2000	1000	TCA-20C05-2000	TCAN-20C05-2000
TCBS-20C05-2500	φ20	5	5.0	2500	1250	TCA-20C05-2500	TCAN-20C05-2500
TCBS-20C05-3000	φ20	5	5.0	3000	1500	TCA-20C05-3000	TCAN-20C05-3000
TCBS-20C05-4000	φ20	5	5.0	4000	2000	TCA-20C05-4000	TCAN-20C05-4000
TCBS-20C05-5000	φ20	5	5.0	5000	2500	TCA-20C05-5000	TCAN-20C05-5000
TCBS-20C05-10000	φ20	5	5.0	10000	5000	TCA-20C05-10000	TCAN-20C05-10000
TCBS-20C05-30000	φ20	5	5.0	30000	15000	TCA-20C05-30000	TCAN-20C05-30000

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# Concave Mirror Substrates/Aluminum Concave Mirror Substrates

TCBS/TCA/TCAN

φ25 – φ30								
Application Systems	Substrates						Mirror coating	
	Part Number	Diameter φD [mm]	Edge thickness te [mm]	Center thickness tc [mm]	Radius of curvature r [mm]	Focal length f [mm]	With Protective layer Part Number	Without Protective layer Part Number
Optics & Optical Coatings	TCBS-25C10-15	φ25	10	3.3	15	7.5	TCA-25C10-15	TCAN-25C10-15
	TCBS-25C07-20	φ25	7	2.6	20	10	TCA-25C07-20	TCAN-25C07-20
	TCBS-25C07-25	φ25	7	3.7	25	12.5	TCA-25C07-25	TCAN-25C07-25
Opto-Mechanics	TCBS-25C07-30	φ25	7	4.3	30	15	TCA-25C07-30	TCAN-25C07-30
	TCBS-25C07-40	φ25	7	5.0	40	20	TCA-25C07-40	TCAN-25C07-40
	TCBS-25C07-50	φ25	7	5.4	50	25	TCA-25C07-50	TCAN-25C07-50
	TCBS-25C05-60	φ25	5	3.7	60	30	TCA-25C05-60	TCAN-25C05-60
	TCBS-25C05-70	φ25	5	3.9	70	35	TCA-25C05-70	TCAN-25C05-70
Bases	TCBS-25C05-80	φ25	5	4.0	80	40	TCA-25C05-80	TCAN-25C05-80
	TCBS-25C05-90	φ25	5	4.1	90	45	TCA-25C05-90	TCAN-25C05-90
	TCBS-25C05-100	φ25	5	4.2	100	50	TCA-25C05-100	TCAN-25C05-100
Manual Stages	TCBS-25C05-120	φ25	5	4.3	120	60	TCA-25C05-120	TCAN-25C05-120
	TCBS-25C05-150	φ25	5	4.5	150	75	TCA-25C05-150	TCAN-25C05-150
	TCBS-25C05-200	φ25	5	4.6	200	100	TCA-25C05-200	TCAN-25C05-200
Actuators & Adjusters	TCBS-25C05-250	φ25	5	4.6	250	125	TCA-25C05-250	TCAN-25C05-250
	TCBS-25C05-300	φ25	5	4.7	300	150	TCA-25C05-300	TCAN-25C05-300
	TCBS-25C05-400	φ25	5	4.7	400	200	TCA-25C05-400	TCAN-25C05-400
	TCBS-25C05-500	φ25	5	4.8	500	250	TCA-25C05-500	TCAN-25C05-500
	TCBS-25C05-600	φ25	5	4.8	600	300	TCA-25C05-600	TCAN-25C05-600
Light Sources & Laser Safety	TCBS-25C05-700	φ25	5	4.9	700	350	TCA-25C05-700	TCAN-25C05-700
	TCBS-25C05-800	φ25	5	4.9	800	400	TCA-25C05-800	TCAN-25C05-800
	TCBS-25C05-1000	φ25	5	4.9	1000	500	TCA-25C05-1000	TCAN-25C05-1000
Index	TCBS-25C05-1500	φ25	5	4.9	1500	750	TCA-25C05-1500	TCAN-25C05-1500
	TCBS-25C05-2000	φ25	5	4.9	2000	1000	TCA-25C05-2000	TCAN-25C05-2000
	TCBS-25C05-2500	φ25	5	5.0	2500	1250	TCA-25C05-2500	TCAN-25C05-2500
Guide	TCBS-25C05-3000	φ25	5	5.0	3000	1500	TCA-25C05-3000	TCAN-25C05-3000
	TCBS-25C05-4000	φ25	5	5.0	4000	2000	TCA-25C05-4000	TCAN-25C05-4000
Mirrors	TCBS-25C05-5000	φ25	5	5.0	5000	2500	TCA-25C05-5000	TCAN-25C05-5000
	TCBS-25C05-10000	φ25	5	5.0	10000	5000	TCA-25C05-10000	TCAN-25C05-10000
Beamsplitters	TCBS-25C05-30000	φ25	5	5.0	30000	15000	TCA-25C05-30000	TCAN-25C05-30000
	TCBS-25.4C07-50	φ25.4	7	5.4	50	25	TCA-25.4C07-50	TCAN-25.4C07-50
Polarizers	TCBS-25.4C05-100	φ25.4	5	4.2	100	50	TCA-25.4C05-100	TCAN-25.4C05-100
	TCBS-25.4C05-250	φ25.4	5	4.7	250	125	TCA-25.4C05-250	TCAN-25.4C05-250
Lenses	TCBS-25.4C05-500	φ25.4	5	4.8	500	250	TCA-25.4C05-500	TCAN-25.4C05-500
	TCBS-25.4C05-1000	φ25.4	5	4.9	1000	500	TCA-25.4C05-1000	TCAN-25.4C05-1000
Multi-Element Optics	TCBS-30C10-20	φ30	10	3.2	20	10	TCA-30C10-20	TCAN-30C10-20
	TCBS-30C10-25	φ30	10	5.0	25	12.5	TCA-30C10-25	TCAN-30C10-25
Filters	TCBS-30C07-30	φ30	7	3.0	30	15	TCA-30C07-30	TCAN-30C07-30
	TCBS-30C07-40	φ30	7	4.1	40	20	TCA-30C07-40	TCAN-30C07-40
Prisms	TCBS-30C07-50	φ30	7	4.7	50	25	TCA-30C07-50	TCAN-30C07-50
	TCBS-30C07-60	φ30	7	5.1	60	30	TCA-30C07-60	TCAN-30C07-60
Substrates/Windows	TCBS-30C07-70	φ30	7	5.4	70	35	TCA-30C07-70	TCAN-30C07-70
	TCBS-30C07-80	φ30	7	5.6	80	40	TCA-30C07-80	TCAN-30C07-80
Optical Data	TCBS-30C07-90	φ30	7	5.7	90	45	TCA-30C07-90	TCAN-30C07-90
	TCBS-30C07-100	φ30	7	5.9	100	50	TCA-30C07-100	TCAN-30C07-100
Maintenance	TCBS-30C05-120	φ30	5	4.1	120	60	TCA-30C05-120	TCAN-30C05-120
	TCBS-30C05-150	φ30	5	4.2	150	75	TCA-30C05-150	TCAN-30C05-150
Selection Guide	TCBS-30C05-200	φ30	5	4.4	200	100	TCA-30C05-200	TCAN-30C05-200
	TCBS-30C05-250	φ30	5	4.5	250	125	TCA-30C05-250	TCAN-30C05-250
Low Scattering	TCBS-30C05-300	φ30	5	4.6	300	150	TCA-30C05-300	TCAN-30C05-300
	TCBS-30C05-400	φ30	5	4.7	400	200	TCA-30C05-400	TCAN-30C05-400
Optical Flats	TCBS-30C05-500	φ30	5	4.8	500	250	TCA-30C05-500	TCAN-30C05-500
	TCBS-30C05-600	φ30	5	4.8	600	300	TCA-30C05-600	TCAN-30C05-600
Optical Parallels	TCBS-30C05-700	φ30	5	4.8	700	350	TCA-30C05-700	TCAN-30C05-700
	TCBS-30C05-800	φ30	5	4.9	800	400	TCA-30C05-800	TCAN-30C05-800
Wedged Substrates	TCBS-30C05-1000	φ30	5	4.9	1000	500	TCA-30C05-1000	TCAN-30C05-1000
	TCBS-30C05-1500	φ30	5	4.9	1500	750	TCA-30C05-1500	TCAN-30C05-1500
Concave Mirror Substrates	TCBS-30C05-2000	φ30	5	4.9	2000	1000	TCA-30C05-2000	TCAN-30C05-2000
	TCBS-30C05-2500	φ30	5	5.0	2500	1250	TCA-30C05-2500	TCAN-30C05-2500
Master Optics	TCBS-30C05-3000	φ30	5	5.0	3000	1500	TCA-30C05-3000	TCAN-30C05-3000
	TCBS-30C05-3500	φ30	5	5.0	3500	1750	TCA-30C05-3500	TCAN-30C05-3500
Windows	TCBS-30C05-4000	φ30	5	5.0	4000	2000	TCA-30C05-4000	TCAN-30C05-4000
	TCBS-30C05-5000	φ30	5	5.0	5000	2500	TCA-30C05-5000	TCAN-30C05-5000
Concave Mirror Substrates	TCBS-30C05-10000	φ30	5	5.0	10000	5000	TCA-30C05-10000	TCAN-30C05-10000
	TCBS-30C05-30000	φ30	5	5.0	30000	15000	TCA-30C05-30000	TCAN-30C05-30000



**φ40 – φ50**

Substrates						Mirror coating	
Part Number	Diameter φD [mm]	Edge thickness te [mm]	Center thickness tc [mm]	Radius of curvature r [mm]	Focal length f [mm]	With Protective layer Part Number	Without Protective layer Part Number
TCBS-40C13-25	φ40	13	3.0	25	12.5	TCA-40C13-25	TCAN-40C13-25
TCBS-40C13-30	φ40	13	5.4	30	15	TCA-40C13-30	TCAN-40C13-30
TCBS-40C13-40	φ40	13	7.6	40	20	TCA-40C13-40	TCAN-40C13-40
TCBS-40C13-50	φ40	13	8.8	50	25	TCA-40C13-50	TCAN-40C13-50
TCBS-40C10-60	φ40	10	6.6	60	30	TCA-40C10-60	TCAN-40C10-60
TCBS-40C10-70	φ40	10	7.1	70	35	TCA-40C10-70	TCAN-40C10-70
TCBS-40C08-80	φ40	8	5.5	80	40	TCA-40C08-80	TCAN-40C08-80
TCBS-40C08-90	φ40	8	5.7	90	45	TCA-40C08-90	TCAN-40C08-90
TCBS-40C08-100	φ40	8	6.0	100	50	TCA-40C08-100	TCAN-40C08-100
TCBS-40C07-150	φ40	7	5.7	150	75	TCA-40C07-150	TCAN-40C07-150
TCBS-40C07-200	φ40	7	6.0	200	100	TCA-40C07-200	TCAN-40C07-200
TCBS-40C07-250	φ40	7	6.2	250	125	TCA-40C07-250	TCAN-40C07-250
TCBS-40C06-300	φ40	6	5.3	300	150	TCA-40C06-300	TCAN-40C06-300
TCBS-40C06-400	φ40	6	5.5	400	200	TCA-40C06-400	TCAN-40C06-400
TCBS-40C06-500	φ40	6	5.6	500	250	TCA-40C06-500	TCAN-40C06-500
TCBS-40C06-1000	φ40	6	5.8	1000	500	TCA-40C06-1000	TCAN-40C06-1000
TCBS-40C06-1500	φ40	6	5.9	1500	750	TCA-40C06-1500	TCAN-40C06-1500
TCBS-50C16-40	φ50	16	7.2	40	20	TCA-50C16-40	TCAN-50C16-40
TCBS-50C13-50	φ50	13	6.3	50	25	TCA-50C13-50	TCAN-50C13-50
TCBS-50C10-60	φ50	10	4.5	60	30	TCA-50C10-60	TCAN-50C10-60
TCBS-50C10-70	φ50	10	5.4	70	35	TCA-50C10-70	TCAN-50C10-70
TCBS-50C10-80	φ50	10	6.0	80	40	TCA-50C10-80	TCAN-50C10-80
TCBS-50C10-90	φ50	10	6.5	90	45	TCA-50C10-90	TCAN-50C10-90
TCBS-50C10-100	φ50	10	6.8	100	50	TCA-50C10-100	TCAN-50C10-100
TCBS-50C08-120	φ50	8	5.4	120	60	TCA-50C08-120	TCAN-50C08-120
TCBS-50C08-150	φ50	8	5.9	150	75	TCA-50C08-150	TCAN-50C08-150
TCBS-50C08-200	φ50	8	6.4	200	100	TCA-50C08-200	TCAN-50C08-200
TCBS-50C08-250	φ50	8	6.7	250	125	TCA-50C08-250	TCAN-50C08-250
TCBS-50C08-300	φ50	8	7.0	300	150	TCA-50C08-300	TCAN-50C08-300
TCBS-50C08-400	φ50	8	7.2	400	200	TCA-50C08-400	TCAN-50C08-400
TCBS-50C08-500	φ50	8	7.4	500	250	TCA-50C08-500	TCAN-50C08-500
TCBS-50C08-600	φ50	8	7.5	600	300	TCA-50C08-600	TCAN-50C08-600
TCBS-50C08-700	φ50	8	7.6	700	350	TCA-50C08-700	TCAN-50C08-700
TCBS-50C08-800	φ50	8	7.6	800	400	TCA-50C08-800	TCAN-50C08-800
TCBS-50C08-1000	φ50	8	7.7	1000	500	TCA-50C08-1000	TCAN-50C08-1000
TCBS-50C08-1500	φ50	8	7.8	1500	750	TCA-50C08-1500	TCAN-50C08-1500
TCBS-50C08-2000	φ50	8	7.8	2000	1000	TCA-50C08-2000	TCAN-50C08-2000
TCBS-50C08-2500	φ50	8	7.9	2500	1250	TCA-50C08-2500	TCAN-50C08-2500
TCBS-50C08-3000	φ50	8	7.9	3000	1500	TCA-50C08-3000	TCAN-50C08-3000
TCBS-50C08-3500	φ50	8	7.9	3500	1750	TCA-50C08-3500	TCAN-50C08-3500
TCBS-50C08-4000	φ50	8	7.9	4000	2000	TCA-50C08-4000	TCAN-50C08-4000
TCBS-50C08-5000	φ50	8	7.9	5000	2500	TCA-50C08-5000	TCAN-50C08-5000
TCBS-50C08-10000	φ50	8	8.0	10000	5000	TCA-50C08-10000	TCAN-50C08-10000
TCBS-50C08-30000	φ50	8	8.0	30000	15000	TCA-50C08-30000	TCAN-50C08-30000

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