

# Ceramic Circular Plates

**Ceramic Circular Plates**

RoHS 10

Properties P953

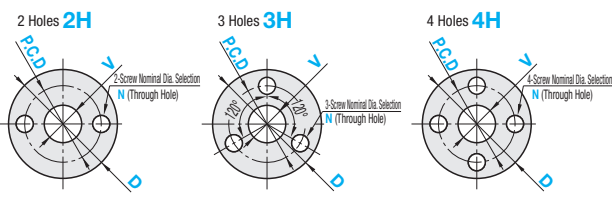
**Standard Type**

Part Number	Material	Finish Precision
PCEA	Alumina 96	Standard Grade
PCEAV	Alumina 96	Precision Grade (Upper-lower Surface Milling)
PCCES	Steatite	Standard Grade
PCCESV	Steatite	Precision Grade (Upper-lower Surface Milling)

**Accuracy Standards**

Item	PCEA, PCCES	PCEAV, PCCESV
Thickness Parallelism (D=50)	0.1	0.05
Flatness (D=50)	T=1	0.1
	T=2-5	0.1
		0.05

**Pre-drilled Type**



**Accuracy Standards**

Item	PCEA, PCCES	PCEAV, PCCESV
Thickness Parallelism (D=50)	0.1	0.05
Flatness (D=50)	T=1	0.1
	T=2-5	0.1
		0.05

• D Dimension Tolerance (Standard Grade, Precision Grade)  
D20-80 ±1%

• V Dimension Tolerance (Standard Grade, Precision Grade)  
±0.15

Standard Grade: PCEA, PCCES  
Precision Grade: PCEAV, PCCESV

T ±0.1      T ±0.05

Surface Roughness of PCCESV (Ra) = 0.8

Washers / Collars (P.153), Rods (P.322) and Bushings for Locating Pins (P.1-1685) are also offered.

**Standard Type**

Part Number	Type	5mm Increment D	1mm Increment V	Selection T	
				PCEA, PCEAV	PCCES, PCCESV
PCEA		20-80	0-70 (V≤D-10)	1	3
PCEAV		20-50		2	
PCCES		20-50*		5	
PCCESV		20-50*			

**Hole Machining Details**

Screw Nominal Dia.	3	4	5	6	8	10
d	3.5	4.5	5.5	6.5	9	11

\* Dimension D for PCCES and PCCESV is in 10mm increment. When D≥55, T=1 and 2 are not selectable. (Only T=5 is selectable.)

**Pre-drilled Type**

Part Number	Type	Number of Holes	5mm Increment D	1mm Increment V	Selection T		1mm Increment P.C.D	Screw Nominal Dia. Selection N (Through Hole)
					PCEA, PCEAV	PCCES, PCCESV		
PCEA		2H	20-80	0-70 (V≤D-10)	1	3	10-70 <sup>2</sup>	3
PCEAV		3H	20-50		2		4	
PCCES		4H	20-50 <sup>1</sup>		5		5	
PCCESV			20-50 <sup>1</sup>					10-40 <sup>2</sup>
								6
								8
								10

\*1: Dimension D for PCCES and PCCESV is in 10mm increment. \*2: 3mm or more thickness is required between holes and between a hole and the perimeter. When D≥55, T=1 and 2 are not selectable. (Only T=5 is selectable.)

**Ordering Example**

**Standard Type**

Part Number - D - V - T

PCEA - 35 - 25 - 2

**Pre-drilled Type**

Part Number - D - V - T - P.C.D - Screw Nominal Dia.

PCEA2H - 50 - 10 - 5 - 35 - N4

The product price is the price shown in the table by the material multiplier.

(Ex.) Part Number - D - V - T

PCEAV - 40 - 15 - 2 >>

(Price in the Table) x (Material Multiplier) = Standard Type Unit Price

**Standard Type** Material multiplier should be noted.

Part Number	T	D	V	Unit Price			
				0	1-20	21-40	41-60
Type (Material Multiplier)	1	20					
		25					
		30					
		35					
		40					
		45					
	5	50					
		20					
		25					
		30					
		35					
		40					
PCEA (x1.0)	5	45					
		50					
		55					
		60					
		65					
		70					
PCEAV (x1.2)	5	75					
		80					
		20					
		30					
		40					
		50					
PCCES (x1.0)	3	20					
		30					
		40					
PCCESV (x1.2)	5	20					
		30					
		40					

**Hole Machining Charge**

Pre-drilled Type Price = Standard Type Unit Price + Hole Machining Charge

(Ex.) Part Number - D - V - T - P.C.D - Screw Nominal Dia. >>

PCEA2H - 45 - 0 - 2 - 30 - N4

(Standard Type Unit Price) + (Hole Machining Charge) = Pre-drilled Type Price

**Alterations**

Part Number - D - V - T - (DC, PN)

PCEA - 50 - 20 - 5 - DC49

Alterations	O.D. Dimension	Through Hole Tolerance
<b>Code</b>	DC	PN
<b>Spec.</b>	Changes the D dimension. DC=1mm Increment • DC<D • 5mm or more distance is required between DC and V. 15:DC≤79 Ex.) Changes D dimension 50 to 47. [Ordering Code] DC47	Alters Through Hole Tolerance. ±0.2 ±0.05 Ex.) Alters tolerance in N4 to ±0.05 [Ordering Code] N4-PN