


Ceramic Circular Plates

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RoHS 10
Properties P953

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)

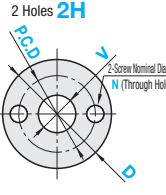
Accuracy Standards

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

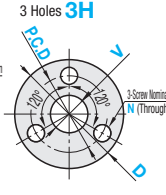
• D Dimension Tolerance (Standard Grade, Precision Grade)
D20-80 ±1%
• V Dimension Tolerance (Standard Grade, Precision Grade)
±0.15

Pre-drilled Type

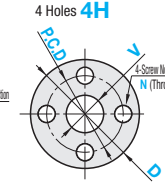
2 Holes **2H**

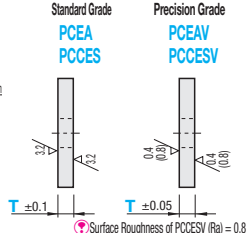


3 Holes **3H**



4 Holes **4H**





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

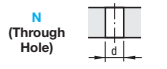
Tolerance: T ±0.1 (Standard), T ±0.05 (Precision)

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	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	5
PCCES	20-50*			
PCCESV	20-50*			

Hole Machining Details	
N (Through Hole)	
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	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 ²	3
PCEAV	3H	20-50		2	5	10-40 ²	4
PCCES	4H	20-50 ¹					5
PCCESV		20-50 ¹					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

Ordering Example: 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

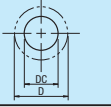
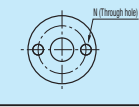
Hole Machining Charge
Pre-drilled Type: Part Number - D - V - T - P.C.D - Screw Nominal Dia.
(Ex.) PCEA2H - 45 - 0 - 2 - 30 - N4
(Standard Type Unit Price) + (Hole Machining Charge) = Pre-drilled Type Price

Alterations: Part Number - D - V - T - (DC, PN)
PCEA - 50 - 20 - 5 - DC49

Standard Type

Material multiplier should be noted.

Part Number	T	D	V	Unit Price			
				0	1-20	21-40	41-60
PCEA (x1.0)	1	20					
		25					
		30					
		35					
		40					
	5	45					
		50					
		55					
		60					
		65					
PCCES (x1.0)	3	20					
		30					
		40					
		50					
		60					
	5	65					
		70					
		75					
		80					
		85					

Alterations	O.D. Dimension	Through Hole Tolerance
		
Code	DC	PN
Spec.	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