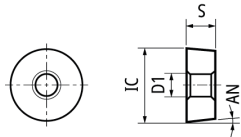


BIDEMICS / Ceramics / NTK CeramiX

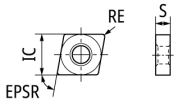
CDH



Steel																
Stainless Steel																
Cast Iron																
Non-Ferrous Material																
Heat Resistant Alloy																
Hardened Material																
Others (non-metallic)																

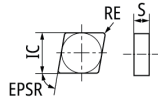
Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS			NTK CeramiX	Alumina Ceramics							Silicon Nitride Ceramics					Whisker Ceramics				
													PVD	PVD			PVD	HC1	HW2	HC2	HC4	HC6	HC7	PVD	SX3	SX5	SX7	SX9	SX6	SP9 CVD	WA1	WA5	
(ISO)			°	mm	mm	°	mm	mm	mm	mm	mm	mm	120	JP2	JX1	JX3	450	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX3	SX5	SX7	SX9	SX6	SP9	WA1	WA5	
	CDH1207P07010	P07010	-	12.7	6.35	6	-	3.18	-	-	-	-																					
	CDH1909P15015	P15015	-	19.05	9.52	6	-	6.35	-	-	-	-																					

CNGA



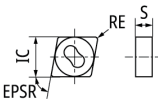
Steel																
Stainless Steel																
Cast Iron																
Non-Ferrous Material																
Heat Resistant Alloy																
Hardened Material																
Others (non-metallic)																

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramiX	Alumina Ceramics							Silicon Nitride Ceramics					Whisker Ceramics			
													PVD	PVD	JX1	JX3		PVD	HC1	HW2	HC2	HC4	HC6	HC7	PVD	SX3	SX5	SX7	SX9	SX6	CVD	SP9	WA1
																	120																
	(ISO)		°	mm	mm	°	mm	mm	mm	mm	mm	mm																					
	CNGA120404BQE004	E004	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404BQT00520	T00520	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404S02025	S02025	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404T01025	T01025	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404X01015	X01015	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404X01015-10	X01015	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120404Z02025	Z02025	80	12.7	4.76	-	0.4	-	-	-	-	-																					
	CNGA120408BQE004	E004	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408BQT00520	T00520	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408S02025	S02025	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T00520	T00520	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T01020	T01020	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T01025	T01025	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T02020	T02020	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408T02025	T02025	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408X01015	X01015	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408X01015-10	X01015	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120408Z02025	Z02025	80	12.7	4.76	-	0.8	-	-	-	-	-																					
	CNGA120412BQE004	E004	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412BQT00520	T00520	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412S02025	S02025	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T00520	T00520	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T01020	T01020	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T01025	T01025	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T02020	T02020	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412T02025	T02025	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412X01015	X01015	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120412X01015-10	X01015	80	12.7	4.76	-	1.2	-	-	-	-	-																					
	CNGA120416T00520	T00520	80	12.7	4.76	-	1.6	-	-	-	-	-																					
	CNGA120416T01020	T01020	80	12.7	4.76	-	1.6	-	-	-	-	-																					
	CNGA120416T02020	T02020	80	12.7	4.76	-	1.6	-	-	-	-	-																					
	CNGA120416T02025	T02025	80	12.7	4.76	-	1.6	-	-	-	-	-																					



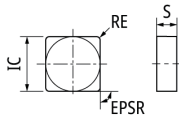
Steel																
Stainless Steel																
Cast Iron																
Non-Ferrous Material																
Heat Resistant Alloy																
Hardened Material																
Others (non-metallic)																

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramIX	Alumina Ceramics							Silicon Nitride Ceramics						Whisker Ceramics	
													PVD	PVD				PVD	HC1	HW2	HC2	HC4	HC6	HC7	PVD	SX3	SX5	SX7	SX9	SX6	CVD	WA1
	(ISO)	°	mm	mm	°	mm	mm	mm	mm	mm	mm	mm	mm	120	JP2	JP1	JP3	450	HC1	HW2	HC2	HC4	HC6	HC7	PVD	SX3	SX5	SX7	SX9	SX6	SP9	WA1
	CNGN120404T01025	T01025	80	12.7	4.76	-	0.4	-	-	-	-	-																				
	CNGN120408S02025	S02025	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T00520	T00520	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T00820	T00820	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T01020	T01020	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T01025	T01025	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T02020	T02020	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408T02025	T02025	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120408Z02025	Z02025	80	12.7	4.76	-	0.8	-	-	-	-	-																				
	CNGN120412S02025	S02025	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T00520	T00520	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T00820	T00820	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T01020	T01020	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T01025	T01025	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T02020	T02020	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412T02025	T02025	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120412Z02025	Z02025	80	12.7	4.76	-	1.2	-	-	-	-	-																				
	CNGN120416T00520	T00520	80	12.7	4.76	-	1.6	-	-	-	-	-																				
	CNGN120416T01020	T01020	80	12.7	4.76	-	1.6	-	-	-	-	-																				
	CNGN120416T02020	T02020	80	12.7	4.76	-	1.6	-	-	-	-	-																				
	CNGN120416T02025	T02025	80	12.7	4.76	-	1.6	-	-	-	-	-																				
	CNGN120420T01025	T01025	80	12.7	4.76	-	2	-	-	-	-	-																				
	CNGN120708T00520	T00520	80	12.7	7.94	-	0.8	-	-	-	-	-																				
	CNGN120708T02025	T02025	80	12.7	7.94	-	0.8	-	-	-	-	-																				
	CNGN120712T02025	T02025	80	12.7	7.94	-	1.2	-	-	-	-	-																				
	CNGN160716T00520	T00520	80	15.875	7.94	-	1.6	-	-	-	-	-																				



Steel																
Stainless Steel																
Cast Iron																
Non-Ferrous Material																
Heat Resistant Alloy																
Hardened Material																
Others (non-metallic)																

Shape	Item Number	CECC	EPSR	IC	S	AN	RE	D1	D2	INSL	S1	W1	BIDEMICS				NTK CeramIX	Alumina Ceramics							Silicon Nitride Ceramics					Whisker Ceramics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
													PVD	PVD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					



Steel														
Stainless Steel														
Cast Iron														
Non-Ferrous Material														
Heat Resistant Alloy														
Hardened Material														
Others (non-metallic)														

Shape	Item Number (ISO)	CECC	EPSR °	IC mm	S mm	AN °	RE mm	D1 mm	D2 mm	INSL mm	S1 mm	W1 mm	BIDEMICS				NTK CeramiX PVD 450	Alumina Ceramics							Silicon Nitride Ceramics					Whisker Ceramics			
													PVD 120	PVD JP2	PVD JX1	PVD JX3		PVD 450	HC1	HW2	HC2	HC4	HC6	HC7	PVD ZC7	SX3	SX5	SX7	SX9	SX6	CVD SP9	WA1	WA5
	SNGN090308T01025	T01025	90	9.525	3.18	-	0.8	-	-	-	-	-																					
	SNGN090316T01025	T01025	90	9.525	3.18	-	1.6	-	-	-	-	-																					
	SNGN090408T01025	T01025	90	9.525	4.76	-	0.8	-	-	-	-	-	-																				
	SNGN120404T01025	T01025	90	12.7	4.76	-	0.4	-	-	-	-	-																					
	SNGN120408S02025	S02025	90	12.7	4.76	-	0.8	-	-	-	-	-																					
	SNGN120408T00520	T00520	90	12.7	4.76	-	0.8	-	-	-	-	-																					
	SNGN120408T00820	T00820	90	12.7	4.76	-	0.8	-	-	-	-	-																					
	SNGN120408T01020	T01020	90	12.7	4.76	-	0.8	-	-	-	-	-																					
	SNGN120408T01025	T01025	90	12.7	4.76	-	0.8	-	-	-	-	-																					
	SNGN120408T02020	T02020	90	12.7	4.76	-	0.8	-	-	-	-	-																					
	SNGN120408T02025	T02025	90	12.7	4.76	-	0.8	-	-	-	-	-																					
	SNGN120408Z02025	Z02025	90	12.7	4.76	-	0.8	-	-	-	-	-																					
	SNGN120412S02025	S02025	90	12.7	4.76	-	1.2	-	-	-	-	-																					
	SNGN120412T00520	T00520	90	12.7	4.76	-	1.2	-	-	-	-	-																					
	SNGN120412T00820	T00820	90	12.7	4.76	-	1.2	-	-	-	-	-																					
	SNGN120412T01020	T01020	90	12.7	4.76	-	1.2	-	-	-	-	-																					
	SNGN120412T01025	T01025	90	12.7	4.76	-	1.2	-	-	-	-	-																					
	SNGN120412T02020	T02020	90	12.7	4.76	-	1.2	-	-	-	-	-																					
	SNGN120412T02025	T02025	90	12.7	4.76	-	1.2	-	-	-	-	-																					
	SNGN120412Z02025	Z02025	90	12.7	4.76	-	1.2	-	-	-	-	-																					
	SNGN120416S02025	S02025	90	12.7	4.76	-	1.6	-	-	-	-	-																					
	SNGN120416T00520	T00520	90	12.7	4.76	-	1.6	-	-	-	-	-																					
	SNGN120416T01020	T01020	90	12.7	4.76	-	1.6	-	-	-	-	-																					
	SNGN120416T01025	T01025	90	12.7	4.76	-	1.6	-	-	-	-	-																					
	SNGN120416T02020	T02020	90	12.7	4.76	-	1.6	-	-	-	-	-																					
	SNGN120416T02025	T02025	90	12.7	4.76	-	1.6	-	-	-	-	-																					
	SNGN120416Z02025	Z02025	90	12.7	4.76	-	1.6	-	-	-	-	-																					
	SNGN120420T01020	T01020	90	12.7	4.76	-	2	-	-	-	-	-																					
	SNGN120420T01025	T01025	90	12.7	4.76	-	2	-	-	-	-	-																					
	SNGN120420T02020	T02020	90	12.7	4.76	-	2	-	-	-	-	-																					
	SNGN120420T02025	T02025	90	12.7	4.76	-	2	-	-	-	-	-																					
	SNGN120424T01025	T01025	90	12.7	4.76	-	2.4	-	-	-	-	-																					
	SNGN120424T02020	T02020	90	12.7	4.76	-	2.4	-	-	-	-	-																					
	SNGN120708T02025	T02025	90	12.7	7.94	-	0.8	-	-	-	-	-																					
	SNGN120712S02025	S02025	90	12.7	7.94	-	1.2	-	-	-	-	-																					
	SNGN120712T02025	T02025	90	12.7	7.94	-	1.2	-	-	-	-	-																					
	SNGN120716T02025	T02025	90	12.7	7.94	-	1.6	-	-	-	-	-																					
	SNGN150716T02025	T02025	90	15.875	7.94	-	1.6	-	-	-	-	-																					
	SNGN190616T00525	T00525	90	19.05	6.35	-	1.6	-	-	-	-	-																					
	SNGN190724T00525	T00525	90	19.05	7.94	-	2.4	-	-	-	-	-																					

[illegible][illegible]