

Comparison sheet for thermal cutoffs of contain Pb and Pb free type

Axial type

K type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	K06F	65	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
K09	98	—	—	—	—	—	—	—	—
K10	102	441	102	SM095G0	100	K2F	102	44E	108
K11	115	442	115	SM110G0	115	K3F	115	442	115
K12	130	443	130	SM126G0	131	K4F	127	—	—
K13	133	444	133	—	—	K13F	133	44X	133
		—	—	SM130G0	135	K5F	136	—	—
K14	150	445	150	SM150G0	150	K7F	145	44K	150
K18	187	—	—	—	—	—	—	—	—
K19	139	448	139	—	—	K6F	139	47M	139

VS type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	T06F	65	—	—
VS07	76	320	76	—	—	T0F	76	32Y	76
VS08	86	—	—	—	—	T1F	86	—	—
VS09	98	—	—	—	—	—	—	—	—
VS10	103	321	102	SM095B0	100	T2F	102	32E	108
VS11	117	322	115	SM110B0	115	T3F	115	322	115
VS12	128	—	—	—	—	T4F	127	—	—
VS22	130	323	130	SM126B0	131	T13F	133	32X	133
		324	133						
VS13	136	—	—	SM130B0	135	T5F	136	—	—
VS14	150	325	150	SM150B0	150	T7F	145	32J	145
VS16	169	—	—	—	—	—	—	—	—
VS18	187	—	—	—	—	—	—	—	—
VS19	139	328	139	—	—	T6F-T6D	139	32M	139

V type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	V06F	65	12G	65
V076	76	120	76	SM085A0	70	V0F	76	12Y	76
V086	86	—	—	—	—	V1F	86	—	—
V100	103	121	102	SM095A0	100	V2F	102	12E	108
V110	117	122	115	SM110A0	115	V3F	115	122	115
V125	131	123	130	SM126A0	131	V4F	127	—	—
		124	133			V13F	133	12X	133
V130	135	—	—	SM130A0	135	V5F	136	—	—
V145	150	125	150	SM145A0	150	V7F	145	12J	145
V169	169	—	—	—	—	—	—	—	—
V187	187	—	—	—	—	—	—	—	—
V135	139	—	—	—	—	V8F	139	12M	139

Y type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	Y08F	65	—	—
—	—	—	—	—	—	Y0F	76	—	—
—	—	—	—	—	—	Y1F	86	—	—
Y2	103	—	—	—	—	Y2F	102	—	—
Y3	117	—	—	—	—	Y3F	115	—	—
Y4	128	—	—	—	—	Y4F	127	—	—
		—	—	—	—	Y13F	133	—	—
Y5	136	—	—	—	—	Y5F	136	—	—
Y7	150	—	—	—	—	Y7F	145	—	—
Y8	169	—	—	—	—	—	—	—	—
Y9	187	—	—	—	—	—	—	—	—
Y6	139	—	—	—	—	Y6F	139	—	—

L type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	L06F	85	—	—
—	—	—	—	—	—	—	—	22YR	76
L1	84	—	—	—	—	—	—	—	—
L2	102	221R	102	—	—	—	—	22ER	108
L3	115	222R	115	—	—	L3F	115	—	—
L4	130	223R	130	—	—	—	—	—	—
L5	133	224R	133	—	—	—	—	22XR	133
—	—	228R	139	—	—	L6F	139	22MR	139
L7	150	225R	150	—	—	L7F	145	22JR	145
L8	169	—	—	—	—	—	—	—	—
L9	187	—	—	—	—	—	—	—	—

Axial type [Thermal cutoffs suitable for board mounting]

KP type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	K06X	65	—	—
—	—	—	—	—	—	K0X	76	—	—
—	—	—	—	—	—	K1X	86	—	—
KP10	102	—	—	—	—	K2X	102	—	—
KP11	115	—	—	—	—	K3X	115	—	—
KP12	130	—	—	—	—	K4X	127	—	—
—	—	—	—	—	—	K13X	133	—	—
KP13	133	—	—	—	—	K5X	136	—	—
—	—	—	—	—	—	K6X	139	—	—
KP14	150	—	—	—	—	K7X	145	—	—

P type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	T06X	65	—	—
P07	76	—	—	—	—	T0X	76	—	—
P08	86	—	—	—	—	T1X	86	—	—
P10	103	—	—	—	—	T2X	102	—	—
P11	117	—	—	—	—	T3X	115	—	—
P12	128	—	—	—	—	T4X	127	—	—
—	—	—	—	—	—	T13X	133	—	—
P13	136	—	—	—	—	T5X	136	—	—
—	—	—	—	—	—	T6X	139	—	—
P14	150	—	—	—	—	T7X	145	—	—

Radial type

N type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEG		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	N06F	65	—	—
N0	76	—	—	—	—	N0F	76	—	—
N1	86	—	—	—	—	N1F	86	—	—
N2	103	S1	102	—	—	N2F	102	SE	108
N3	117	S2	115	—	—	N3F	115	S2	115
N4	127	—	—	—	—	N4F	127	—	—
N44	130	S3	130	—	—	N13F	133	—	—
N5	136	S4	133	—	—	N5F	136	SX	133
—	—	—	—	—	—	N6F	139	—	—
N6	140	—	—	—	—	N7F	145	—	—
N7	150	S5	150	—	—	—	—	SJ	145
N8	169	—	—	—	—	—	—	—	—

H type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEG		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	H06F	65	—	—
H076	76	—	—	—	—	H0F	76	—	—
H086	86	—	—	—	—	H1F	86	—	—
H100	103	U21	102	—	—	H2F	102	U2E	108
H110	117	U22	115	—	—	H3F	115	U22	115
H125	127	U23	130	—	—	H4F	127	—	—
—	—	—	—	—	—	H13F	133	—	—
H130	136	U24	133	—	—	H5F	136	U2X	133
—	—	—	—	—	—	H6F	139	—	—
H135	140	—	—	—	—	H7F	145	—	—
H145	150	U25	150	—	—	—	—	U2J	145
H160	165	—	—	—	—	—	—	—	—
H169	169	—	—	—	—	—	—	—	—

E type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	E08F	65	—	—
—	—	—	—	—	—	E0F	76	—	—
—	—	—	—	—	—	E1F	86	—	—
E2	103	X21	102	—	—	E2F	102	X2E	108
E3	117	X22	115	—	—	E3F	115	X22	115
E4	127	X23	130	—	—	E4F	127	—	—
—	—	—	—	—	—	E13F	133	—	—
E5	136	X24	133	—	—	E5F	136	X2X	133
—	—	—	—	—	—	E6F	139	—	—
E7	150	X25	150	—	—	E7F	145	—	—
E8	169	—	—	—	—	—	—	—	—

H-A type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	HU06F	65	—	—
—	—	—	—	—	—	HU0F	76	—	—
—	—	—	—	—	—	HU1F	86	—	—
H100A	103	—	—	—	—	HU2F	102	—	—
H110A	117	—	—	—	—	HU3F	115	—	—
H125A	127	—	—	—	—	HU4F	127	—	—
—	—	—	—	—	—	HU13F	133	—	—
H130A	136	—	—	—	—	HU5F	136	—	—
H135A	140	—	—	—	—	HU6F	139	—	—
H145A	150	—	—	—	—	HU7F	145	—	—

Radial type [Thermal cutoffs suitable for board mounting]

**NP type**

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	N06X	65	—	—
—	—	—	—	—	—	N0X	76	—	—
—	—	—	—	—	—	N1X	86	—	—
NP2	103	—	—	—	—	N2X	102	—	—
NP3	117	—	—	—	—	N3X	115	—	—
NP4	127	—	—	—	—	N4X	127	—	—
—	—	—	—	—	—	N13X	133	—	—
NP5	136	—	—	—	—	N5X	136	—	—
—	—	—	—	—	—	N6X	139	—	—
NP7	150	—	—	—	—	N7X	145	—	—

**P100 type**

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	H06X	65	—	—
—	—	—	—	—	—	H0X	76	—	—
—	—	—	—	—	—	H1X	86	—	—
P100	103	—	—	—	—	H2X	102	—	—
P110	117	—	—	—	—	H3X	115	—	—
P125	127	—	—	—	—	H4X	127	—	—
—	—	—	—	—	—	H13X	133	—	—
P130	136	—	—	—	—	H5X	136	—	—
—	—	—	—	—	—	H6X	139	—	—
P145	150	—	—	—	—	H7X	145	—	—

EP type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	E06X	65	—	—
—	—	—	—	—	—	E0X	76	—	—
—	—	—	—	—	—	E1X	86	—	—
EP2	103	—	—	—	—	E2X	102	—	—
EP3	117	—	—	—	—	E3X	115	—	—
EP4	127	—	—	—	—	E4X	127	—	—
—	—	—	—	—	—	E13X	133	—	—
EP5	136	—	—	—	—	E5X	136	—	—
—	—	—	—	—	—	E6X	139	—	—
EP7	150	—	—	—	—	E7X	145	—	—

P-A type

Contain Pb		Contain Pb of other company				Pb free type		Pb free type of other company	
Anzendengu		Uchihashi		NEC		Anzendengu		Uchihashi	
Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]	Product Name	Tf [°C]
—	—	—	—	—	—	HU06X	65	—	—
—	—	—	—	—	—	HU0X	76	—	—
—	—	—	—	—	—	HU1X	86	—	—
P100A	103	—	—	—	—	HU2X	102	—	—
P110A	117	—	—	—	—	HU3X	115	—	—
P125A	127	—	—	—	—	HU4X	127	—	—
—	—	—	—	—	—	HU13X	133	—	—
P130A	136	—	—	—	—	HU5X	136	—	—
—	—	—	—	—	—	HU6X	139	—	—
P145A	150	—	—	—	—	HU7X	145	—	—