



TANTALUM SMD CAPACITOR CROSS-REFERENCES

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TANTALUM CROSS-REFERENCE

KEMET to AVX

1) Type Note: Some electrical specifications may differ per capacitor type

Name	Description	AVX X-ref	Comment
T491	industrial grade	TAJ, NOJ	20% derating on NOJ sufficient
T492	military CWR 11	TBJ	
T494	Low ESR industrial	TPS, NOS	20% derating on NOS sufficient
T495	Low ESR Surge Robust	TPS	all TPS surge tested
T510	Ultra Low ESR	TPM	multianodes
T520	Conductive Polymer TPS	TPS, NOJ, NOS	
T530	Multianode Polymer	TPM	multianodes

2) Case Size

			Width	Length	Height
KEMET	AVX	EIA	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
A	A	3216-18	1.6	3.2	1.6
B	B	3528-21	2.8	3.5	1.9
C	C	6032-28	3.2	6	2.6
D	D	7343-31	4.3	7.3	2.9
X	E	7343-43	4.3	7.3	4.1
E	V	7260-38	6.1	7.3	3.45 +/-0.3
V	Y	7343-20	4.3	7.3	2.0 max
U	W	6032-15	3.2	6	1.5 max
S	S	3216-12	1.6	3.2	1.2 max
T	T	3528-12	2.8	3.5	1.2 max



TANTALUM CROSS-REFERENCE

VISHAY SPRAGUE to AVX

1) Type Note: Some electrical specifications may differ per capacitor type

<u>Name</u>	<u>Description</u>	<u>AVX X-ref</u>	<u>Comment</u>
293D	Commercial	TAJ, NOJ	20% derating on NOJ sufficient
593D	Switch Mode low ESR	TPS, NOS	20% derating on NOS sufficient
293DN	Niobium Commercial	NOJ	20% derating on NOJ sufficient
255D	Polymer low ESR	TPS, NOJ, NOS	
CWR09	Military CWR 09	TAZ	
CWR11	Military CWR 11	TBJ	
296D	Low Profile	TAJ/TPS	LP incl. in TAJ LP/TPS matrix
595D	Conformal Coat High Cap	TAJ/TPS	ESR rating can X-ref to TPS
591D/592D	Conformal Coat Low Profile	TAJ/TPS	LP incl. in TAJ LP/TPS matrix
594D	Conformal Coat Low ESR	TPS	
597D	Conformal Multianode	TPM	



TANTALUM CROSS-REFERENCE

VISHAY SPRAGUE to AVX

2] Case Size

			W	L	H
VISHAY	AVX	EIA	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
A	A	3216-18	1.6	3.2	1.6
B	B	3528-21	2.8	3.5	1.9
C	C	6032-28	3.2	6	2.6
D	D	7343-31	4.3	7.3	2.9
E	E	7343-43	4.3	7.3	4.1
R	V	7260-38	6.1	7.3	3.45 +/-0.3
D (592D)	X	7343-15	4.3	7.3	1.5 max
C (592D)	W	6032-15	3.2	6	1.5 max
A (592D)	S	3216-12	1.6	3.2	1.2 max
B (592D)	T	3528-12	2.8	3.5	1.2 max



TANTALUM CROSS-REFERENCE

EPCOS to AVX

1) Type Note: Some electrical specifications may differ per capacitor type

<u>Name</u>	<u>Description</u>	<u>AVX X-ref</u>	<u>Comment</u>
B45196-E	Standard Version	TAJ/NOJ	20% derating on NOJ sufficient
B45196-H	Standard High Cap	TAJ	TAJ consists high CAP
B45196-P	150C peak High Temp	THJ/TRJ	THJ 150C continuous
B45197-R	Low ESR Surge Robust	TPS, NOS	20% derating on NOS sufficient
B45194-E	Low Profiles	TAJ	TAJ LP matrix
B45194-R	Low Profiles TPS	TPS	TPS consists LP sizes
B45296	Polymer	TPS, NOJ, NOS	
B45294	Low Profile Polymer	TPS	
B45398-R	multianodes	TPM	
B45496	Polymer multianode	TPM	
B75194	Niobium low profile	NOJ	under development
B75196	Niobium commercial	NOJ	



TANTALUM CROSS-REFERENCE

EPCOS to AVX

2] Case Size

			W	L	H
EPCOS	AVX	EIA	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
A	A	3216-18	1.6	3.2	1.6
B	B	3528-21	2.8	3.5	1.9
C	C	6032-28	3.2	6	2.6
D	D	7343-31	4.3	7.3	2.9
E	E	7343-43	4.3	7.3	4.1
V	Y	7343-20	4.3	7.3	2.0 max
Z W1.25+/-0.2; L2.0+/-0.2	R	2012-12	1.3	2.05	1.2 max
	TACR	2012-15	1.35	2 +0.25/-0.15	1.35
	P	2012-15	1.3	2.05	1.35
P	S	3216-12	1.6	3.2	1.2 max



TANTALUM CROSS-REFERENCE

NEC to AVX

1] Type Note: Some electrical specifications may differ per capacitor type

Name	Description	AVX X-ref	Comment
E/SV, R	Standard, Extended	TAJ, NOJ	20% derating on NOJ sufficient
SVS	Ultra miniaturised	TAJ/TAC	
SVH	Higher Performance	TPS	all TPS surge tested
SVZ	Low ESR	TPS, NOS	20% derating on NOS sufficient
PSL/PSN	Low ESR Conductive Polymer	TPS, NOJ/NOS	
NBP	Niobium Polymer	NOS	

2] Case Size

			W	L	H
NEC	AVX	EIA	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
A	A	3216-18	1.6	3.2	1.6
B2	B	3528-21	2.8	3.5	1.9
C H2.5+/-0.2	C	6032-28	3.2	6	2.6
D H2.8+/-0.2	D	7343-31	4.3	7.3	2.9
V	Y	7343-20	4.3	7.3	2.0 max
P W1.25+/-0.2; L2.0+/-0.2	R	2012-12	1.3	2.05	1.2 max
	TACR	2012-15	1.35	2 +0.25/-0.15	1.35
	P	2012-15	1.3	2.05	1.35
A2	S	3216-12	1.6	3.2	1.2 max
B3	T	3528-12	2.8	3.5	1.2 max
J W0.85+/-0.1; L1.6+/-0.1; H0.8+/-0.1	TACL	1608	0.85	1.6 +0.25/-0.15	0.85

Tantalum Capacitors



TANTALUM CROSS-REFERENCE

NICHICON to AVX

1] Type Note: Some electrical specifications may differ per capacitor type

Name	Description	AVX X-ref	Comment
F93	Standard	TAJ, NOJ	20% derating on NOJ sufficient
F92	Compact Miniaturized	TAJ	
F95, F75, F72	Conformal, RE, low prof	TPS	
F97	High reliability	TRJ, THJ	THJ higher perf (150C)
F91	Low ESR	TPS, NOS	20% derating on NOJ/NOS sufficient
F55	Low ESR Conductive Polymer	TPS, NOJ, NOS	

2] Case Size

			W	L	H
NICHICON	AVX	EIA	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
A	A	3216-18	1.6	3.2	1.6
B	B	3528-21	2.8	3.5	1.9
C H2.5+/-0.2	C	6032-28	3.2	6	2.6
N H2.8+/-0.2	D	7343-31	4.3	7.3	2.9
R	V	7260-38	6.1	7.3	3.45 +/-0.3
S	Y	7343-20	4.3	7.3	2.0 max
P W1.25+/-0.2; L2.0+/-0.2	TAJR	2012-12	1.3	2.05	1.2 max
	TACR	2012-15	1.35	2 +0.25/-0.15	1.35
	P	2012-15	1.3	2.05	1.35
A (F92)	S	3216-12	1.6	3.2	1.2 max
B (F92) L3.4+/-0.2	T	3528-12	2.8	3.5	1.2 max

Tantalum Capacitors



TANTALUM CROSS-REFERENCE

HITACHI to AVX

1] Type Note: Some electrical specifications may differ per capacitor type

Name	Description	AVX X-ref	Comment
TMCS	Standard	TAJ, NOJ	20% derating on NOJ sufficient
TMCM	Miniaturised	TAJ	
TMCP	0805 size	TAJ/TAC	
TMCU	Ultra Flat Low Profiles	TAJ	Low Profiles
TMCR	Low ESR	TPS, NOS	20% derating on NOS sufficient
TMCH	High Reliability	TRJ, THJ	THJ higher perf (150C)
TMCN	Conductive Polymer	TPS, NOJ, NOS	

2] Case Size

			W	L	H
HITACHI	AVX	EIA	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
A	A	3216-18	1.6	3.2	1.6
B	B	3528-21	2.8	3.5	1.9
C H2.5+/-0.2	C	6032-28	3.2	6	2.6
E H2.8+/-0.2	D	7343-31	4.3	7.3	2.9
G	E	7343-43	4.3	7.3	4.1
UE I	Y	7343-20	4.3	7.3	2.0 max
UC	W	6032-15	3.2	6	1.5 max
P W1.25+/-0.2; L2.0+/-0.2	R	2012-12	1.3	2.05	1.2 max
	TACR	2012-15	1.35	2 +0.25/-0.15	1.35
	P	2012-15	1.3	2.05	1.35
UA	S	3216-12	1.6	3.2	1.2 max
UB	T	3528-12	2.8	3.5	1.2 max
J W0.85+/-0.1; L1.6+/-0.1; H0.8+/-0.1	TACL	1608	0.85	1.6 +0.25/-0.15	0.85

Tantalum Capacitors



TANTALUM CROSS-REFERENCE

MATSUO to AVX

1] Type Note: Some electrical specifications may differ per capacitor type

Name	Description	AVX X-ref	Comment
267M/E	Standard, RE	TAJ, NOJ	20% derating on NOJ sufficient
267P	Military	TAZ/TBJ	
278/251	2012, 1068 size	TAJ/TAC	
277	Low Profiles	TAJ	Low Profiles
281	Low ESR	TPS, NOS	20% derating on NOS sufficient
267N	High Reliability	TRJ	
271	High Temperature	THJ	

2] Case Size

MATSUO	AVX	EIA	W	L	H
A	A	3216-18	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
B	B	3528-21	1.6	3.2	1.6
C3 H2.5+/-0.2	C	6032-28	2.8	3.5	1.9
D3 H2.8+/-0.2	D	7343-31	3.2	6	2.6
H	E	7343-43	4.3	7.3	2.9
E	V	7260-38	4.3	7.3	4.1
S W1.25+/-0.2; L2.0+/-0.2	R	2012-12	6.1	7.3	3.45 +/-0.3
	TACR	2012-15	1.3	2.05	1.2 max
	P	2012-15	1.35	2 +0.25/-0.15	1.35
A (277)	S	3216-12	1.3	2.05	1.35
B (277)	T	3528-12	1.6	3.2	1.2 max
M W0.85+/-0.1; L1.6+/-0.1; H0.8+/-0.1	TACL	1608	2.8	3.5	1.2 max
			0.85	1.6 +0.25/-0.15	0.85

Tantalum Capacitors



TANTALUM CROSS-REFERENCE

PANASONIC to AVX

1) Type Note: Some electrical specifications may differ per capacitor type

Name	Description	AVX X-ref	Comment
TE	ECST Standard	TAJ, NOJ	20% derating on NOJ sufficient
TES	ECST Low Profiles	TAJ	Low Profiles
THE	ECSH Moisture resistance	TRJ	
TEL	EEJL Low ESR	TPS, NOS	20% derating on NOS sufficient

2) Case Size

			W	L	H
PANASONIC	AVX	EIA	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
Y	A	3216-18	1.6	3.2	1.6
X	B	3528-21	2.8	3.5	1.9
C H2.5+/-0.2	C	6032-28	3.2	6	2.6
D H2.8+/-0.2	D	7343-31	4.3	7.3	2.9
UE	E	7343-43	4.3	7.3	4.1
CD LP H1.5+/-0.1	X	7343-15	4.3	7.3	1.5 max
CD H1.8+/-0.1	Y	7343-20	4.3	7.3	2.0 max
K	TAJR	2012-12	1.3	2.05	1.2 max
	TACR	2012-15	1.35	2 +0.25/-0.15	1.35
	P	2012-15	1.3	2.05	1.35



TANTALUM CROSS-REFERENCE

SANYO to AVX

1) Type Note: Some electrical specifications may differ per capacitor type

<u>Name</u>	<u>Description</u>	<u>AVX X-ref</u>	<u>Comment</u>
TPA	Standard Conductive Polymer	TPS, NOJ, NOS	
TPB	Extended Conductive Polymer	TPS, NOJ, NOS	
TPC	Low Profile Polymer	TPS	

2) Case Size

			W	L	H
SANYO	AVX	EIA	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
C	C	6032-28	3.2	6	2.6
D3	D	7343-31	4.3	7.3	2.9
D2	Y	7343-20	4.3	7.3	2.0 max



TANTALUM CROSS-REFERENCE

SAMSUNG to AVX

1] Type Note: Some electrical specifications may differ per capacitor type

Name	Description	AVX X-ref	Comment
SCN	Standard	TAJ, NOJ	20% derating on NOJ sufficient
SCS	Extended Range	TAJ, NOJ	20% derating on NOJ sufficient
SCS-P	Miniaturised	TAJ/TAC	
SCE	Low ESR	TPS, NOS	20% derating on NOS sufficient

2] Case Size

			W	L	H
Samsung	AVX	EIA	+ 0.2/-0.1	+/- 0.2	+ 0.2/-0.1
A	A	3216-18	1.6	3.2	1.6
B	B	3528-21	2.8	3.5	1.9
C	C	6032-28	3.2	6	2.6
D	D	7343-31	4.3	7.3	2.9
P W1.25+/-0.2; L2.0+/-0.2	R	2012-12	1.3	2.05	1.2 max
	TACR	2012-15	1.35	2 +0.25/-0.15	1.35
	P	2012-15	1.3	2.05	1.35