

**ELECTRONIC DEVICES INC YONKERS NEW YORK USA**

**RoHS and Lead-free Information**

as of January, 2015

**(\*) RoHS compatible is defined as compatible with the following documents:**

DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 21 July 2011 on the restriction of the use of certain hazardous substances in electrical and electronic

equipment COM (2004) 606 final Proposal for a COUNCIL DECISION amending Directive 2011/65/EU of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment

ELECTRONIC DEVICES Product Family	Product Types	RANGE OF ORDERING CODE	RoHS information					Resistance to soldering heat resistance according:				Soldering conditions				
			ROHS compatible*)	Planned start of production of RoHS compatible components	3rd party certification available (ICP data)	RoHS compatible since date code or Start of Production	Samples of RoHS compatible components available	IEC 60068-2-20 (wave soldering)	IEC 60068-2-58 (Reflow)	JEDEC 20B (Reflow)	JEDEC 20C (Reflow)	Maximum temperature / peak time / cycles	Backward compatible (leaded soldering process) if Pb free	MSL (Jedec 20 B/C)	Plating of terminals of RoHS compatible component	
100CYL	100CYL150, 100CYL175, 100CYL200	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	SCREW ON
10PH	10PH05, 10PH10, 10PH20, 10PH40, 10PH60, 10PH80, 10PH100	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
200CYL	200CYL150, 200CYL175, 200CYL200	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	SCREW ON
3RUW	3RUS2120, 3RUS2150, 3RUS2180, 3RUS4120, 3RUS4150, 3RUS4180	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
3W*	3W2, 3W3, 3W3	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
4PH	4PH05, 4PH10, 4PH20, 4PH40, 4PH60, 4PH80, 4PH100	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
6PH	6PH05, 6PH10, 6PH20, 6PH40, 6PH60, 6PH80, 6PH100	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
6PHR*	6PHR05, 6PHR10, 6PHR20, 6PHR40, 6PHR60, 6PHR80, 6PHR100	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
8PH*	8PH05, 8PH10, 8PH20, 8PH40, 8PH60, 8PH80, 8PH100	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BCD	BCD08, BCD10, BCD12, BCD15, BCD20, BCD25, BCD30, BCD35, BCD40, BCD50	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	TIN
BRUS1*	BRUS105, BRUS110, BRUS120, BRUS140, BRUS150, BRUS160	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BRUS2*	BRUS205, BRUS210, BRUS220, BRUS240, BRUS250, BRUS260	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BRUS2*F	BRUS205F, BRUS210F, BRUS220F, BRUS240F, BRUS250F, BRUS260F	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BRUS3*	BRUS305, BRUS310, BRUS320, BRUS340, BRUS350, BRUS360	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BRUS3*W	BRUS305W, BRUS310W, BRUS320W, BRUS340W, BRUS350W, BRUS360W	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BRUS4*	BRUS405, BRUS410, BRUS420, BRUS440, BRUS450, BRUS460	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BRUS4*W	BRUS405W, BRUS410W, BRUS420W, BRUS440W, BRUS450W, BRUS460W	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BRUS5*	BRUS505, BRUS510, BRUS520, BRUS540, BRUS550, BRUS560	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BRUS6*	BRUS605, BRUS610, BRUS620, BRUS640, BRUS650, BRUS660	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
BRUS7*	BRUS705, BRUS710, BRUS720, BRUS740, BRUS750, BRUS760	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
CRVT	CRVT150, CRVT200, CRVT2500, CRVT300	after 0501	YES	NOT APPLICABLE	NO	JAN 05	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SN/AG/CU
DL	DL300, DL500, DL800, DL1000, DL1200	after 0501	YES	NOT APPLICABLE	NO	JAN 05	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SN/AG/CU
DR	DR300, DR500, DR800, DR1000, DR1200, DR1500	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT RECOMMEND	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 8 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
DY*	DY05, DY10, DY20, DY40, DY60, DY80, DY100	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
EF*	EF100, EF150, EF200, EF200	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
EG	EG200, EG250, EG300	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
EH	EH300, EH350, EH400	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
EK	EK400, EK450, EK500, EK600	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
EM	EM700, EM800	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
EP	EP100, EP1000	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
ER	ER100, ER1200	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
FP40*	FP4005, FP4010, FP4020, FP4040, FP4060, FP4080, FP40100, FP40120	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
FP40*W	FP4005W, FP4010W, FP4020W, FP4060W, FP4080W, FP40100W, FP40120W	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
FPL1*	FPL105, FPL110, FPL120, FPL140, FPL160, FPL180, FPL1100	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
FPIR32*	FPIR3205, FPIR3210, FPIR3220, FPIR3240, FPIR3260, FPIR3280, FPIR32100	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HAB	HAB005, HAB010, HAB020, HAB040, HAB060, HAB080, HAB100	AFTER 1996	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HIB	HIB005, HIB010, HIB020, HIB040, HIB060, HIB080, HIB100, HIB120	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HTD*	HTD3, HTD5	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 10 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HTD**	HTD15, HTD30	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HTDR*	HTDR3	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 10 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HV	HV15PD, HV20PD, HV25PD, HV30PD, HV10P, HV20P, HV30P, HV40PHV50P	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT RECOMMEND	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HVP	HVPF2, HVPF4, HVPF6, HVPF8, HVPF10, HVPF12	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HVPFR	HVPFR2, HVPFR4, HVPFR6, HVPFR8, HVPFR10, HVPFR12	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HX*	HX10M, HX20M, HX30M, HX40M, HX50M, HX60M, HX80M, HX100M, HX100ML, HX100ML	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT RECOMMEND	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 8 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
HX*P	HX15PD, HX20PD, HX25PD, HX30PD, HX10P, HX20P, HX30P, HX40P, HX50P	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT RECOMMEND	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 8 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
KHP	KHP5, KHP6, KHP7, KHP8, KHP9, KHP10	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
KHP	KHP15, KHP20, KHP25, KHP30, KHP35, KHP40, KHP50	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SCREW ON
KMO	KMO5, KMO8, KMO10, KMO12, KMO15	AFTER 1988	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	TIN
KPI50*	KPI5005, KPI5010, KPI5020, KPI5040, KPI5060, KPI5080, KPI50100, KPI50120	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
KPI60*	KPI6005, KPI6010, KPI6020, KPI6040, KPI6060, KPI6080, KPI60100, KPI60120	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
KVF	KVF5, KVF7.5, KVF10, KVF12.5, KVF15, KVF20, KVF25, KVF30	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	TIN
KVO	KVO5, KVO8, KVO10, KVO12, KVO15	AFTER 1988	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
KVP	KVP5, KVP6, KVP7, KVP8, KVP9, KVP10	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
KVP	KVP15, KVP20, KVP30, KVP35, KVP40, KVP50	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
MP40*	MP4005, MP4010, MP4020, MP4040, MP4060, MP4080, MP40100, MP40120	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
MP40*W	MP4005W, MP4010W, MP4020W, MP4040W, MP4060W, MP4080W, MP40100W, MP40120W	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
MP50*	MP5005, MP5010, MP5020, MP5040, MP5060, MP5080, MP50100, MP50120	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
MP50*W	MP5005W, MP5010W, MP5020W, MP5040W, MP5060W, MP5080W, MP50100W, MP50120W	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
MPIL*	MPIL05, MPIL10, MPIL20, MPIL40, MPIL60, MPIL80, MPIL100	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
MPIR40*	MPIR4005, MPIR4010, MPIR4020, MPIR4040, MPIR4060, MPIR4080, MPIR40100	ANY	YES	NOT APPLICABLE	NO	START	NO	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	350, 20 SEC, 3	YES	NOT APPLICABLE	NOT APPLICABLE	SILVER
NTD	NTD08, NTD10, NTD12, NTD15, NTD20, NTD25, NTD30, NTD35	ANY	YES	NOT APPLICABLE	NO	START	NO	YES	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	275, 25 SEC, 3				

