

## KVG Lead-free and RoHS Compliant Status Matrix

Product		Terminations	Schedule				Terminations	
Type	Series	Exist. Lead Finish	Phase 1	Phase 2	Phase 3	RoHS compliant	RoHS compl. Lead Finish	Remarks
Crystal, leaded	XMP-1100/1200	Au, SnCu, SnAg				yes	Au, SnCu, SnAg	
Crystal, leaded	XMP-2100/2200/2300	SnCuAg, SnCu				yes	SnCuAg, SnCu	
Crystal, leaded	XMP-3100/3200	Au, NiAu				yes	Au, NiAu	
Crystal, leaded	XMP-4100/4200	Au, NiAu				yes	Au, NiAu	
Crystal, leaded	XS-xxxx	Au, SnAg				yes	Au, SnAg	
Crystal, leaded	XA-xxxx	Au, NiCo, SnAg				yes	Au, NiCo, SnAg	
SMD Crystal	XMP-5100	Au, NiAu				yes	Au, NiAu	
SMD Crystal	XMP-6100	Au, NiAu				yes	Au, NiAu	
SMD Crystal	XMP-7100	Au, NiAu				yes	Au, NiAu	
Crystal Filter	XF-9xxx	SnPb	Mrz 05	Jul 05	Nov 05		SnAgCu	
Linear Phase Filter	XF-xxxSxx	SnPb	Mrz 05	Jul 05	Nov 05		SnAgCu	
LC Filter	LCF-214Sxx	SnPb	Mrz 05	Jul 05	Nov 05		SnAgCu	
XO TH	XO-2070, -4085	SnPb, SnCu	Mai 05	Aug 05	Nov 05		SnAgCu, SnCu, Sn	If pure Sn, Ni barrier layer
XO TH	XO-PECL	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
XO SMD	XO-SM100	SnPb, NiAu	Mai 05	Aug 05	Nov 05		Sn, NiAu	If pure Sn, Ni barrier layer
XO TH	XO-700	SnPb, SnCu	Mai 05	Aug 05	Nov 05		SnAgCu	
XO SMD	XO-800	SnPb	Mai 05	Aug 05	Nov 05		Sn	If pure Sn, Ni barrier layer
XO SMD	XO-9000	Au, NiAu				yes	Au, NiAu	
XO SMD	XO-9600	Au, NiAu				yes	Au, NiAu	
XO SMD	XO-9700	Au, NiAu				yes	Au, NiAu	
XO SMD	XO-9800	Au, NiAu				yes	Au, NiAu	
VCXO TH	V-800	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
VCXO TH	VCXO-2070, -4085	SnPb, SnCu	Mai 05	Aug 05	Nov 05		SnAgCu, SnCu, Sn	If pure Sn, Ni barrier layer
VCXO TH	V-600	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
VCXO SMD	V-700	SnPb	Mai 05	Aug 05	Nov 05		Sn	If pure Sn, Ni barrier layer
VCXO SMD	V-810	SnPb	Mai 05	Aug 05	Nov 05		Sn	If pure Sn, Ni barrier layer
VCXO SMD	V-860	SnPb	Mai 05	Aug 05	Nov 05		Sn	If pure Sn, Ni barrier layer
VCXO SMD	SM-100	SnPb, NiAu	Mai 05	Aug 05	Nov 05		Sn, NiAu	If pure Sn, Ni barrier layer
VCXO SMD	V-9xxx	Au, NiAu				yes	Au, NiAu	
TCXO TH	TO-200	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	

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TCXO TH	TO-300	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
TCXO TH	TO-400	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
TCXO TH	F100, F200, F300	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
TCXO TH	G100, G200, G300	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
TCXO SMD	TO-6xx	SnPb	Mai 05	Aug 05	Nov 05		Sn	If pure Sn, Ni barrier layer
TCXO SMD	TO-800	SnPb	Mai 05	Aug 05	Nov 05		Sn	If pure Sn, Ni barrier layer
TCXO SMD	TO-9100	SnPb	Mai 05	Aug 05	Nov 05		Sn	If pure Sn, Ni barrier layer
TCXO SMD	TO-9500	Au, NiAu				yes	Au, NiAu	
TCXO SMD	TO-9700	Au, NiAu				yes	Au, NiAu	
OCXO TH	2000	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
OCXO TH	2500	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
OCXO TH	3000	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
OCXO TH	4000	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
OCXO TH	4500	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
OCXO TH	A100, B100	SnPb	Mai 05	Aug 05	Nov 05		SnAgCu	
OCXO SMD	6000	SnPb	Mai 05	Aug 05	Nov 05		Sn	If pure Sn, Ni barrier layer
OCXO SMD	6500	SnPb	Mai 05	Aug 05	Nov 05		Sn	If pure Sn, Ni barrier layer

<b>Phase 1</b>	SMD and through-hole components and assemblies: Able to withstand the Pb-free 260°C solder reflow profiles. Internal components of assemblies are soldered using lead-free solder, components and terminations may contain some lead. External packaging and terminations may contain some lead but sre fully compatible to the Pb-free soldering process.
<b>Phase 2</b>	SMD and through-hole components and assemblies: able to withstand the lead-free 260°C solder reflow profiles. Internal PCB, components terminals, solders, and external terminations are lead-free.
<b>Phase 3</b>	SMD and through-hole components and assemblies: able to withstand lead-free 260°C solder reflow. Internal PCB, components, solders, and terminations are lead-free. External packaging and terminations are lead-free.