

This check list is based on:

EU Council Regulation (EU) No 599/2014 of 16 April 2014.

Setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32014R0599&from=EN

Clauses listed are potentially relevant to Tomco Techologies' products.

Clauses not included are not applicable

Product: 250W Oceanographic Doppler Radar Amplifier

Model no. BTM00250-AlphaSA

Category 0 Nuclear materials, facilities and equipment n/a

Category 1 Special materials and related equipment n/a

Category 2 Materials processing n/a

Category 3 Electronics

Clause	Description	Pass/Fail	Notes
		/NA	
3A001		Р	
3A001.a	Electronic components and specifically	Р	
	designed components		
	1. Integrated circuits – radiation hardened	d P	Never used
	2. Microprocessors , microcomputers,	Р	None of the stated
	microcontrollers, SICs, ADC, DAC,		components present
	electro-optical/optical integrated		in the system
	circuits, field programmable logic		



		1	
	devices, custom integrated circuits, FFT		
	processors, EPROMS< flash memories,		
	SRAMS		
	rated for either >125C or <-55 or -55C		
	to 125C		
	3. Microprocessors clock	Р	No micros in system
	frequency>40MHz		
	ADC and DAC integrated circuits	Р	None in system
	6. electro-optical devices	Р	None in system
	7. Field programmable logic devices	Р	None in system
	9. Neural network integrated circuit	Р	Never used
	10. Custom Integrated Circuits	Р	Never used
	11. Digital Integrated Circuits	Р	None in system
	12. FFT processors	Р	None in system
3A001.b	Microwave or millimetre wave components	Р	
	Electronic vacuum tubes and cathodes	Р	None in system
	2. MMIC power amplifiers	Р	SD2942W
	, ,		Maximum rated
			frequency 250MHz
	3. Discrete microwave transistors	Р	Max. rated frequency
			250MHz
	4. Microwave solid-state amplifiers	Р	Max. rated frequency
	·		250MHz
	5. Tunable filters	Р	None in system
	7. Converters and harmonic mixers	Р	None in system
	8. Microwave power amplifiers containing	Р	Never used
	tubes		
	9. Microwave power modules consisting	Р	Never used
	of a travelling wave tube, MMIC and		
	electronic power conditioner		
	10. Oscillators	Р	None in system
	11. Frequency synthesiser	Р	None in system
3A001.c	Acoustic wave devices	Р	Never used
3A001.d	Electronics devices and circuits containing	Р	Never used
	components manufactured from		
	superconductive materials		
3A001.e	High energy devices	Р	
	1. Cells	Р	Never used
	2. High energy storage capacitors	Р	Max. voltage rating <5kV
	Superconductive electromagnets or solenoids	Р	Never used
	Solar cells, CICs, solar panels, solar arrays	Р	Never used



3A001.f	Rotary input type position encoders	Р	Never used
3A001.g	Solid-state pulsed power switching thyristor devices	Р	None in system
3A001.h	Solid-state power semiconductor switches, diodes or modules	Р	Blocking voltage <300V
3A002	General purpose electronic equipment and accessories	Р	
3A002.a	Recording equipment	N/A	
3A002.c	Radio frequency signal analysers	N/A	
3A002.d	Frequency synthesised signal generators	N/A	
3A002.e	Network analysers	N/A	
3A002.f	Microwave test receivers	N/A	
3A002.g	Atomic frequency standards	N/A	
3A003	Spray cooling thermal management system	N/A	
3A101	Electronic equipment, devices and components other than 3A001		
3A101.a	ADCs usable in missiles	N/A	
3A101.b	Accelerators rated for 2MeV or greater	N/A	
3A102	Thermal batteries	N/A	
3A201	Electronic components other than those specified in 3A001		
3A201.a	Capacitors with either 1. V>1.4kV, energy>10J, C>0.5uF, L<50nH 2. V>750V, C,0.25uF, L<10nH	Р	Max. capacitor voltage <750V
3A201.b	Superconducting solenoidal electromagnets	N/A	
3A201.c	Flash X-ray generators or pulsed electron generators	N/A	
3A225	Frequency changers or generators	N/A	
3A226	High-power direct current power supplies	Р	Power supply voltage = 48V
3A227	High-voltage direct current power supplies	Р	Power supply voltage = 48V
3A228	Switching devices	Р	None in system
3A229	High-current pulse generators	Р	None in system
3A230	High-speed pulse generators	Р	None in system
3A231	Neutron generator systems	N/A	
3A232	Multipoint initiation systems	N/A	
3A233	Mass spectrometers	N/A	
3B	Test, inspection and production equipment	Р	Not relevant
3C	Materials Hetero-epitaxial, resists, organo-inorganic,	Р	No non-standard materials used.



	hydrides, SiC, GaN, AlN, AlGaN		Silicon, non hetero- epitaxial devices only
3D	Software	Р	No software in
			system
3E	Technologies	Р	

Category 4 Computers n/a

Category 5 Telecommunications and 'information security' n/a

Category 6 Sensors and lasers n/a

Category 7 Navigation and avionics n/a

Category 8 Marine n/a

Category 9 Aerospace and propulsion n/a

Check all fields are complete.

All fields in this column must record a P or N/A to record a PASS.

BTM00250-AlphaSA: PASS