



Ministry of Defence

Defence Standard

59 – 59/Issue 4

April 1983

**ELECTRICAL/ELECTRONIC
COMPONENTS FOR DEFENCE USE**

**SERVICES QUALIFIED PRODUCTS
LIST
INCLUDING
COMPONENTS OF ASSESSED
QUALITY**

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TUBES

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TUBES, AMPLIFIER, FORWARD TRAVELLING-WAVE

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DEF STAN 59-60 (PART 5)	BS 9027 F0002	English Electric Valve Co Ltd (EEV)	N1094 (VX2652)	5.0 to 5.25	250 W pulse 3.0 W mean	40.0	-	High Power Amplifier	F+	QA
	DEF STAN 59-60/05/001	Standard Telephones and Cables Ltd (STE)	W6MT/2A (VX7171)	4.0 to 7.5	-	33.0	11.0	Low Noise Signal Amplifier	F	QA
	DEF STAN 59-60/05/003 (CV6182)	M-O Valve Co Ltd (MOV)	TWJ30	12.0 to 18.5	2-40 mW	35.0	13.5	Low Noise Signal Amplifier	F	QA
	DEF STAN 59-60/05/007	Standard Telephones and Cables Ltd (STE)	W3MT/4A (VX7168)	7.5 to 12.0	-	33.0	10.0	Low Noise Signal Amplifier	F	QA
	DEF STAN 59-60/05/017	Standard Telephones and Cables Ltd (STE)	W3MQ/5A (VX7187)	9.1 to 9.85	15.0 mW	24.5	7.5	Low Noise Signal Amplifier	F	QA
	DEF STAN 59-60/90/004 (CV6239)	Standard Telephones and Cables Ltd (STE)	VX7163	2.7 to 3.3	0.3 mW	26.0	4.5	Low Noise Signal Amplifier	F	QA
	CV6090	Standard Telephones and Cables Ltd (STE)	VX7156	2.5 to 4.1	3.0 mW	38.0	10.0	Low Noise Signal Amplifier	F	QA
	CV6106	English Electric Valve Co. Ltd (EEV)	N1017M	1.2 to 1.4	2.0 mW	25.0	7.5	Low Noise Signal Amplifier	F	QA
	CV6157	M-O Valve Co. Ltd (MOV)	VX3290	2.5 to 4.1	500 W	20.0	-	Signal Amplifier	F	QA
	CV6179	M-O Valve Co. Ltd (MOV)	M5315	2.5 to 4.1	5-63 mW	40.0	11.0	Low Noise Signal Amplifier	F	QA
	CV6180	M-O Valve Co. Ltd (MOV)	M5316	4.0 to 7.5	5-63 mW	38.0	11.0	Low Noise Signal Amplifier	F	QA
	CV6181	M-O Valve Co. Ltd (MOV)	M5317	7.5 to 12.0	5-63 mW	35.0	11.5	Low Noise Signal Amplifier	F	QA

(For further details refer to the Defence Standard and the detail specification)

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 10)	BS 9061 F0001	English Electric (EEV) Valve Co. Ltd	P863B	Electromagnetic focusing, scanning and alignment. Visible and near infra-red sensitivity. Dimensions 28.8 mm dia x 131.5 mm lg.	B+	QA
	59-60/90/022	Thorn-EMI Electronics Ltd	(EVA) CV6243	Axial magnetic field focusing. Adjustable transverse alignment. Dimensions 28.85 mm dia x 132.5 mm lg.	F	QA

(For further details refer to the Defence Standard and the detail specification)

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ELECTROSTATIC DEFLECTION AND FOCUS

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DEF STAN 59-60 (PART 9)	59-60/90/075	M-O Valve Co. Ltd	(MOV) LD708	100 x 70	Double gun. P7 phosphor. Final anode 8 kV	F	QA

(For further details refer to the Defence Standard and the detail specification)

TUBES, CATHODE RAY
DIRECT VIEW STORAGE

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DEF STAN 59-60 (PART 9)	59-60/90/076 Issue 2	English Electric (EEV) Valve Co. Ltd	VX 2728 (E723)	100 dia.	Flood gun control may be connected to either cathode or ground. EHT = 10 kV	F	QA

(For further details refer to the Defence Standard and the detail specification)

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DEF STAN 59-60 (PART 9)	BS 9054 F0024	Thorn-EMI Brimar (TBQ) Ltd	14C/95J20	134 x	110 x	Radar tube, tetrode gun. Length 268 mm. Anodes 2 and 4 common Vh = 19 V, final anode 17.5 kV. Tube designed for cathode modulation. All voltages with respect to grid potential.	F+	QA
	BS 9054 F0045	M-O Valve Co. Ltd	(MOV) 1478K	82	60		F+	QA
	59-60/90/026	Thorn-EMI Brimar (TBQ) Ltd	VX9290	121 x 95.5	113 x 85	Tetrode gun. Length 233.7 mm. Anodes 2 and 4 common. Final anode 14 kV.	F	QA
	BS 9054 F0058	Thorn-EMI Brimar (TBQ) Ltd	22A/52J2P	202 x 156	185 x 138	Radar tube, tetrode gun. Length 227 mm. Anodes 1 and 3 common. Persistence 40 s to 1%. Final anode 11 kV. Flying leads anode side contact CT8.	F+	QA
	BS 9054 F0071	Thorn-EMI Brimar (TBQ) Ltd	22A/90SPQ	202 x 156	185 x 138	Radar tube, tetrode gun. Length 253 mm. P31 phosphor. Persistence 4 ms to 1%. Final anode 15 kV. Anode flying leads.	F+	QA
	BS 9054 F0028	M-O Valve Co. Ltd	(MOV) M24-140GJ	214 x 165	207 x 144	Radar tube, alpha numeric raster, tetrode gun. Length 280 mm. P1 Phosphor. Final anode 14 kV. Rimband tube with mounting lugs.	F+	QA
	59-60/90/003	Thorn-EMI Brimar (TBQ) Ltd	M31-100GH	281 x 220	257 x 195	Tetrode gun. Length 306 mm. Anodes 2 and 4 common. Final anode 12 kV. Side contact CT8	F	QA
	BS CECC 11001-012	Rank Electronic Tubes Ltd	(RCY) G0541-53	51 dia.	41 dia.	Monitor display, pentode gun, P43 phosphor, Persistence : medium. Tube coils and shield potted on to mounting collar.	F+	QA
	BS CECC 11001-032 BS 9054 F0036	Rank Electronic Tubes Ltd	(RCY) R1645-L1	163 dia.	135 dia.	Radar tube, tetrode gun. Length 400 mm. Anode 2 and 4 common. P26 phosphor Vh = 4 V, final anode 7 kV. Side contact CT8.	F+ F+	QA QA

(For further details refer to the Defence Standard and the BS 9000 detail specification)

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DEF STAN 59-60 (PART 9)	BS 9054 F0003	M-O Valve Co. Ltd	(MOV) T988Z/TPD	307 dia.	250 dia.	Radar tube, tetrode gun. Length 540 mm. Anodes 2 and 4 common. P26 phosphor. Internal resistor for transistor protection. Final anode 15 kV	F+	QA
	BS 9054 F0079	Thorn-EMI Brimar Ltd	(TBQ) 31C/87HHJ				F	QA
	BS 9054 F0004	M-O Valve Co. Ltd	(MOV) T988D/TPD	307 dia.	250 dia.	Radar tube, tetrode gun. Length 540 mm. Anodes 2 and 4 common. P38 phosphor. Internal resistor for transistor protection. Final anode 15 kV	F+	QA
	BS 9054 F0080	Thorn-EMI Brimar Ltd	(TBQ) 31C/87L3HJ				F	QA
	BS CECC 11001-028 BS 9054 F0037	Rank Electronic Tubes Ltd	(RCY) R3111-L2	307 dia.	265 dia.	Radar tube, tetrode gun. Length 494 mm. Anodes 2 and 4 common. P33 phosphor. Final anode 12 kV. Side contact CT8.	F+ F+	QA QA
	BS 9054 F0039 BS CECC 11001-022	Rank Electronic Tubes Ltd	(RCY) R3137-L2	307 dia.	265 dia.	Radar tube, tetrode gun. Length 528 mm. Anodes 2 and 4 common. P33 phosphor. Final anode 14 kV. Side contact CT8.	F+ F+	QA QA
	BS 9054 F0049	Thorn-EMI Brimar Ltd	(TBQ) 41A/40HM	406 dia.	365 dia.	Radar tube, tetrode gun. Length 570 mm. Anodes 2 and 4 common. P26 phosphor. Persistence 250 s to 1%. Final anode 15 kV. Side contact CT8	F	QA
	BS 9054 F0050	Thorn-EMI Brimar Ltd	(TBQ) 41A/40JM	406 dia.	365 dia.	Radar tube, tetrode gun. Length 570 mm. Anodes 2 and 4 common. P27 phosphor. Persistence 1 μ s to 10%, 20 s to 1%. Final anode 15 kV. Side contact CT8.	F	QA
	BS 9054 F0051	Thorn-EMI Brimar Ltd	(TBQ) 41A/40H4BR	406 dia.	365 dia.	Radar tube, tetrode gun. Length 614 mm. Anodes 2 and 4 common. External graphite coating, non-etched shield. Overall transmission 81%. Final anode 15 kV	F	QA
	BS 9054 F0052	Thorn-EMI Brimar Ltd	(TBQ) 41A/40H4VA	406 dia.	365 dia.	Radar tube, tetrode gun. Length 614 mm. Anodes 2 and 4 common. External graphite coating, non-etched shield. Overall transmission 55%. Final anode 15 kV.	F	QA

(For further details refer to the Defence Standard and the BS 9000 detail specification)

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DEF STAN 59-60 (PART 9)	BS 9054 F0053	Thorn-EMI Brimar (TBQ)	41A/111B5CB	406 dia.	365 dia.	Radar tube, tetrode gun. Length 570 mm. Anodes 2 and 4 common. Implosion protection. P57 phosphor. Final anode 15 kV.	F	QA
	BS 9054 F0054	Thorn-EMI Brimar (TBQ)	41A/111JCB	406 dia.	365 dia.	Radar tube, tetrode gun. Length 570 mm. Anodes 2 and 4 common. Implosion protection. P7 phosphor. Final anode 15 kV.	F	QA
	BS 9054 F0055	Thorn-EMI Brimar (TBQ)	41A/111SCB	406 dia.	365 dia.	Radar tube. Tetrode gun. Length 570 mm. Anodes 2 and 4 common. Implosion protection. P31 phosphor. Final anode 15 kV.	F	QA
	BS 9054 F0056	Thorn-EMI Brimar (TBQ) Ltd	41E/87HM	410 dia.	360 dia.	Radar tube, tetrode gun. Length 650 mm. Anodes 2 and 4 common. P26 phosphor. Persistence 250 s to 1%, resolution 0.3 mm. Final anode 15 kV	F	QA
	BS 9054 F0057	Thorn-EMI Brimar (TBQ) Ltd	41E/87SM	410 dia.	360 dia.	Radar tube, tetrode gun. Length 650 mm. Anodes 2 and 4 common. P phosphor. Persistence 4 ms to 20%, resolution 0.2 mm. Final anode 15 kV	F	QA

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DEF STAN 59-60 (PART 9)	BS 9054 F0006	M-O Valve Co. Ltd	(MOV) 1774A	127 x 127	100 x 100	Radar tube, triode gun. Length 304.5 mm. Fibre optic face plate NA : 0.6-0.75. P31 phosphor, final anode 10 kV. Final anode connected to tube housing which should be at each potential.	F+	QA
	BS CECC 11001-004	Thorn-EMI Brimar Ltd	(TBQ) 17F/50401S				F+	QA
	BS 9054 F0007	M-O Valve Co. Ltd	(MOV) 1774B	127 x 127	100 x 100	Radar tube, triode gun. Length 304.5 mm. Fibre optic face plate NA : 0.3-0.43. P31 phosphor, final anode 10 kV. Final anode connected to tube housing which should be at each potential.	F+	QA
	BS CECC 11001-004	Thorn-EMI Brimar Ltd	(TBQ) 17J/50400S				F+	QA
	BS 9054 F0027	Thorn-EMI Brimar Ltd	(TBQ) 16M/1014	113 dia.	104 x 40	Radar/Scan simulator, triode gun. Length 592 mm. Fibre-optic window. P24 phosphor. Final anode 15 kV	F+	QA
	BS 9054 F0029	Rank Electronic Tubes Ltd	(RCY) G0602-J2	57 dia.	46 dia.	Head up display, triode gun. Length 211 mm. P1 phosphor. Final anode 20 kV.	F+	QA
	BS CECC 11001-027						F+	QA
	BS 9054 F0025	Thorn-EMI Brimar Ltd	(TBQ) 06A/1049				F+	QA
	BS 9054 F0030	Rank Electronic Tubes Ltd	(RCY) G0612-J2	64 dia.	47 dia.	Head up display tube, triode gun. P1 phosphor. Final anode 15 kV.	F+	QA
	BS CECC 11001-021						F+	QA
	BS 9054 F0059	T.C. Centronic Ltd	(MID) M2G-343			Anode side contact stud.	F+	QA
	CV 6217	M-O Valve Co Ltd	(MOV) 1208M	70 dia.	55 dia.	Triode gun. Length 259 mm. Anode flying lead Final anode 30 kV.	F	QA
	BS 9054 F0018	Rank Electronic Tubes Ltd	(RCY) P0907-C10	94 dia.	84 dia.	Projection tube, triode gun. Length 336.5 mm. P11 phosphor. Final anode 28 kV. Special shrouded anode connector.	F+	QA
	BS CECC 11001-020						F+	QA

(For further details refer to the Defence Standard and the BS 9000 detail specification)

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DEF STAN 59-60 (PART 9)	BS 9054 F0010	Thorn-EMI Brimar (TBQ) Ltd	31C/48L3MK	307 dia.	250 dia.	Radar tube, tetrode gun. Length 640 mm. P38 phosphor. Resolution 0.18 mm. Final anode 15 kV. Side anode contact CT 8.	F+	QA
	BS 9054 F0044	Rank Electronic (RCY) Tubes Ltd	R3118-L6				F+	QA
	BS 9054 F0011	Thorn-EMI Brimar (TBQ) Ltd	31C/48H2MK	307 dia.	250 dia.	Radar tube, tetrode gun. Length 640 mm. P26 phosphor. Resolution 0.20 mm. Final anode 15 kV. Side anode contact CT 8.	F+	QA
	BS 9054 F0038	Rank Electronic (RCY) Tubes Ltd	R3118-L1				F+	QA
	BS 9054 F0013	Thorn-EMI Brimar (TBQ) Ltd	31E/08L3M	307 dia.	250 dia.	Radar tube, tetrode gun. Length 520 mm. P38 phosphor. Persistence 7s to 10%. Final anode 15 kV. CT 8 contact with CT 2 adaptor.	F+	QA
	BS 9054 F0041	Rank Cintel Ltd (RCY)	R3119-L6				F+	QA
	BS 9054 F0014	Thorn-EMI Brimar (TBQ) Ltd	31E/08HM	307 dia.	250 dia.	Radar tube, tetrode gun. Length 520 mm. P26 phosphor. Persistence 7s to 10%. Final anode 15 kV. CT 8 contact with CT 2 adaptor.	F+	QA
	BS 9054 F0040	Rank Electronic (RCY) Tubes Ltd	R3119-L1				F+	QA
	BS 9054 F0015	Thorn-EMI Brimar (TBQ) Ltd	31E/113HM	307 dia.	250 dia.	Radar tube, tetrode gun. Length 520 mm. P26 phosphor. Internal resistor for transistor protection. Resolution 0.40 min. Final anode 15 kV. CT 8 contact with CT 2 adaptor.	F+	QA
	BS CECC 11001-025 BS 9054 F0031	Rank Electronic (RCY) Tubes Ltd	R3141/L1				F+	QA
	BS 9054 F0016	Thorn-EMI Brimar (TBQ) Ltd	31E/114HM	307 dia.	250 dia.	Radar tube, tetrode gun. Length 520 mm. P26 phosphor. Internal resistor for transistor protection. Resolution 0.20 mm. Final anode 15 kV.	F+	QA
	BS CECC 11001-025 BS 9054 F0032	Rank Electronic (RCY) Tubes Ltd	R3142/L1				F+	QA

(For further details refer to the Defence Standard and the BS 9000 detail specification)

TUBES, CATHODE RAY,
MAGNETIC DEFLECTION AND FOCUS

DEF STAN 59-59 ISSUE 4
AMENDMENT 5

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	FACE-PLATE mm	SCREEN SIZE mm (MIN)	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 9)	BS 9054 F0082	Rank Electronic Tubes Ltd	(RCY) R3115-L1 (CV429)	307 dia.	250 dia.	Radar tube, triode gun. Length 520 mm. P26 phosphor, persistence 250 s to 1%.	F+	QA
	BS 9054 F0085	Thorn-EMI Brimar Ltd	(TBQ) 31M/156HM 31M/156HCC (CV429)			Final anode 15 kV. Anode side contact with CT 2 adaptor.	F+	QA
	BS CECC 11001-005						F+	QA
	BS 9054 F0083	Rank Electronic Tubes Ltd	(RCY) R3117-L1 (CV429A)	307 dia.	250 dia.	Radar tube, tetrode gun. Length 520 mm. P26 phosphor. Persistence 250 s to 1%.	F+	QA
	BS 9054 F0086	Thorn-EMI Brimar Ltd	(TBQ) 31E/04HM 31M/04HCC (CV429A)			Final anode 15 kV. CT 8 contact with CT 2 adaptor.	F+	QA
	BS CECC 11001-006						F+	QA
59-60/90/055	Rank Electronic Tubes Ltd	(RCY) R3133/L1	310 dia.	250 dia.	Tetrode gun. P26 phosphor. Length 520 mm. Final anode 15 kV. CT 8 side contact.	F	QA	
BS 9054 F0069	Thorn-EMI Brimar Ltd	(TBQ) 41B/48H2SE	406 dia.	365 dia.	Radar tube, triode gun. Length 755 mm. Persistence 100s to 1%. Non-etched laminating sheet. Final anode 15 kV.	F+	QA	
BS 9054 F0070	Thorn-EMI Brimar Ltd	(TBQ) 41B/48H2SB	406 dia.	365 dia.	Radar tube, triode gun. Length 755 mm. Persistence 100s to 1%. Etched laminating sheet. Final anode 15 kV.	F+	QA	

(For further details refer to the Defence Standard and the BS 9000 detail specification)

TUBES, CORONA STABILIZER

DEF STAN 59-59 ISSUE 4
AMENDMENT 4

NATIONAL DETAIL SPECIFICATION NUMBER	SERIES NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	NOMINAL OPERATING VOLTS	MAX. CONT. CURRENT (mA)	ENVELOPE	REMARKS	ASSESS LEVEL	TYPE OF APP.	
DEF STAN 59-60/04/001	SC7	M-O Valve Co. Ltd	(MOV)	VX3553	14000	1.0	Ceramic/metal	Encapsulated	F	QA
					15000	1.0	Ceramic/metal	Encapsulated		
					15000	1.0	Ceramic/metal	Standard		
DEF STAN 59-60/04/002	SC9	M-O Valve Co. Ltd	(MOV)	VX3556	500	0.385	Ceramic/metal	Standard	F	QA
					800	0.490	Ceramic/metal	Standard		
					2000	0.855	Ceramic/metal	Standard		
DEF STAN 59-60/04/003	SC6	M-O Valve Co. Ltd	(MOV)	VX3551	7000	1.0	Ceramic/metal	Standard	F	QA
				VX3552	10000	1.0	Ceramic/metal	Standard		
				VX3557	5000	1.0	Ceramic/metal	Standard		
DEF STAN 59-60/04/004	SC8	M-O Valve Co. Ltd	(MOV)	VX3559	25000	1.0	Ceramic/metal	Standard	F	QA

(For further details refer to the Defence Standard)

TUBES, COUNTER, INDICATOR AND SELECTORDEF STAN 59-59 ISSUE 4
AMENDMENT 4

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	MAX. IGNITION VOLTS	NOM. MAINT. VOLTS	MAX. GUIDE INPUT SIG. FREQUENCY (KHz)	USE	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 3)	CV 5143	Hivac Ltd	(HVR) GC10D	420	215	20.0	Counter	F	QA
	*CV 2325	Mullard Ltd	(QDD) GS 10C Z502S	400	192	4.0	Selector	F	QA
	CV 6100	English Electric (EEV) Valve Co. Ltd	VX9194/4B	350	190	4.0	Selector	F	QA
	CV 6103	English Electric (EEV) Valve Co. Ltd	VX9210	-	-	2000	Selector	F	QA

* NB. CV2325 is Class 1 Radioactive - Tritium radionuclide

(For further details refer to the Defence Standard)

TUBES, IMAGE INTENSIFIER

DEF STAN 59-59 ISSUE 4
AMENDMENT 4

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	SCREEN SIZE mm (MIN)	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.	
DEF STAN 59-60 (PART 15)	59-60/90/098	Mullard Ltd	(QDD)	XX1306	18 dia.	Channel plate tube with automatic brightness control. Integral power supply. P20 phosphor. Gain 35000. Magnification 0.91. Supply volts 2.6 V dc. Outline dimensions 52.8 mm dia. x 46.3 mm	F	QA
	59-60/90/113	English Electric Valve Co. Ltd	(EEV)	P8306B	18 dia.	Channel plate tube with automatic brightness control and high light overload protection. Integral power supply. Gain 7500, magnification 1.0, CTR residual voltage 25, supply voltage 6.5 V dc. Outline dimensions 43.94 mm dia. x 30.40 mm.	F	QA
	59-60/90/115	English Electric Valve Co. Ltd	(EEV)	P8306C	18 dia.	Channel plate tube with integral power supply. Gain 15000, magnification 1.0, CTR residual voltage 25, supply voltage 2.5 V dc. Outline dimensions 53.09 mm dia. x 47.60 mm.	F	QA
	59-60/90/107	English Electric Valve Co. Ltd	(EEV)	P8079	25 dia.	Three stage cascade with automatic brightness control and high light overload protection. Integral power supply. P20 phosphor. Gain 50000, magnification 0.84, CTR residual voltage 28, supply voltage 6.5 V dc. Outline dimensions 69.85 mm dia. x 195.32 mm.	F	QA
	59-60/90/089	Mullard Ltd	(QDD)	XX1332	40 dia.	Channel plate tube with integral power supply. P20 phosphor. Gain 30000, magnification 0.66, CTR residual voltage 18, supply voltage 6.5 V dc. Outline dimensions 94.8 x 72.2 x 101.76 mm.	F	QA

(For further details refer to the Defence Standard and the detail specification)

TUBES, KLYSTRONS

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	FREQUENCY RANGE	O/P (mW)	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 7)	59-60/90/057	English Electric (EEV) Valve Co. Ltd	VX2626 (CV6158)	34.2-35.6 GHz	30-150	F	QA
	59-60/90/073	English Electric (EEV) Valve Co. Ltd	F2007 (CV10374)	960-1215 MHz	12	F	QA

(For further details refer to the Defence Standard and the detail specification)

TUBES, MAGNETRON

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	Nom. Frequency (GHz)	Max. Mean Input Power (W)	Max. Pulse Duration (µS)	Min. Peak Power O/P (KW)	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 6)	BS CECC 36001-001	Thorn-EMI Varian Ltd	(EVA) PT 5027	8.785 to 8.830	60	6	0.019	B+	QA
	BS CECC 36001-003	Thorn-EMI Varian Ltd	(EVA) PT 5069	8.785 to 8.830	60	6	0.019	B+	QA
	BS 9031 F0006	Thorn-EMI Varian Ltd	(EVA) PT 5017	9.1 to 9.5	288	2.7	80	F+	QA
	BS 9031 F0010	Thorn-EMI Varian Ltd	(EVA) PT 5018	8.98 to 9.18	288	2.7	64	F+	QA
	BS 9032 F0004	Thorn-EMI Varian Ltd	(EVA) PT 5036 (CV 6199)	9.21 to 9.27	71	1.0	17.5	B+	QA
DEF STAN 59-60/06/005	CV 6034	M-O Valve Co Ltd (MOV)	VX 3393A	9.545	360	1	100	F	QA
DEF STAN 59-60/06/005	CV 6035	M-O Valve Co Ltd (MOV)	VX 3393B	9.60	360	1	100	F	QA
DEF STAN 59-60/06/005	CV 6036	M-O Valve Co Ltd (MOV)	VX 3393C	9.655	360	1	100	F	QA
DEF STAN 59-60 (PART 6)	CV 1916	English Electric (EEV) Valve Co Ltd	4J33	2.80	1200	2.5	400	F	QA

(For further details refer to the Defence Standard and the detail specification)

TUBES, MAGNETRON

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	Nom. Frequency (GHz)	Max. Mean Input Power (W)	Max. Pulse Duration (μS)	Min. Peak Power O/P (kW)	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 6)	CV 2473	English Electric (EEV) Valve Co Ltd	VX 2525 538A	9.240	750	6.0	225	F	QA
	CV 5018	English Electric (EEV) Valve Co Ltd	4J52A	9.375	240	5.0	70	F	QA
	CV 6072	Thorn-EMI Varian Ltd	(EVA) VX 8241	8.80	60	6.0	0.017	F	QA

(For further details refer to the Defence Standard and the detail specification)

TUBES, MICROWAVE SWITCHING, GAS FILLED
ATR TUBES

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 8)	CV 2274	English Electric (EEN) Valve Co Ltd	BS 826	Frequency range 9.5 to 9.7 GHz Minimum Transmitter peak power 200 kW	F	QA
	CV 2308	English Electric (EEN) Valve Co Ltd	BS 116	Frequency range 9.05 to 9.6 GHz Minimum Transmitter peak power 50 kW	F	QA
	CV 2309	English Electric (EEN) Valve Co Ltd	BS 118	Frequency range 8.5 to 9.05 GHz Minimum Transmitter peak power 50 kW	F	QA
	CV 6213	Ferranti Ltd (FRR)	RF 51	Frequency range 34.5 to 35.3 GHz Minimum Transmitter peak power 50 kW	F	QA

(For further details refer to the Defence Standard and the detail specification)

TUBES, MICROWAVE SWITCHING, GAS FILLED
PASSIVE PROTECTION TUBES

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 8)	CV 6073	Ferranti Ltd	(FRR) NF43	Frequency range 7.0 to 11.5 GHz Maximum peak power 100 kW	F	QA

(For further details refer to the Defence Standard)

TUBES, MICROWAVE SWITCHING, GAS FILLED
PRE-TR TUBES

DEF STAN 59-59 ISSUE 4
AMENDMENT 5

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	Frequency Range (GHz)	Power Max. Peak (KW)	Power Max. Mean (KW)	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 8)	CV 6086	English Electric (EEN) Valve Co Ltd	VX 9204 (BS 836)	2.5 to 12.0	250	0.250	F	QA
		Nore Microwave Ltd	(DEE) VX 9204 (BS 836)				F	QA
	CV 6110	Nore Microwave Ltd	(DEE) VX 9230 (BS 840)	2.0 to 4.0	6000	12.0	F	QA
	CV 6129	Claudegen Neon Lights Ltd	(CXL) BS 714	2.6 to 3.9	5.0	115.0	F	QA
		English Electric (EEN) Valve Co Ltd	BS 714				F	QA
DEF STAN 59-60/08/001	BS 9043 F0001	English Electric (EEN) Valve Co Ltd	VX 9196 (BS 834) CV 6028	2.0 to 4.0	2500	3.0	F	QA

(For further details refer to the Defence Standard and the Detail Specification)

TUBES, MICROWAVE SWITCHING, GAS FILLED
PULSED ATTENUATOR

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 8)	CV 6089	Nore Microwave Ltd	(DEE) VX 9195	Frequency range 2.5 to 4.0 GHz. Maximum peak power 0.2 kW	F	QA

(For further details refer to the Defence Standard and the Detail Specification)

TUBES, MICROWAVE SWITCHING, GAS FILLED
TUNEABLE AND BROADBAND TR/TR LIMITERS

DEF STAN 59-59 ISSUE 4
AMENDMENT 5

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 8)	BS 9041 F0010	English Electric (EEN) Valve Co Ltd	WF 42 BS 200 CV 2311	Frequency range 9.18 to 10.0 GHz., Maximum peak power 200 kW.	F+	QA
	CV 2311	Ferranti Ltd (FRR)	WF 42 BS 200		F	QA
	BS 9041 F0011	English Electric (EEN) Valve Co Ltd	WF 43 BS 202 CV 2312	Frequency range 8.5 to 9.3 GHz., Maximum peak power 200 kW.	F+	QA
	CV 2330	Ferranti Ltd	QF50		F	QA
	CV 6132	English Electric (EEN) Valve Co Ltd	WF 415 BS 440	Frequency range 8.5 to 9.1 GHz., Maximum peak power 200 kW.	F	QA
		Ferranti Ltd (FRR)	WF 415 BS 440		F	QA
	CV 6178	English Electric (EEN) Valve Co Ltd	BS 816 WF 402L	Frequency range 8.5 to 9.1 GHz., Maximum peak power 200 kW.	F	QA
	CV 6192	English Electric (EEN) Valve Co Ltd	BS 814 WF 404L	Frequency range 9.0 to 9.7 GHz., Maximum peak power 200 kW.	F	QA

(For further details refer to the Defence Standard and the Detail Specification)

TUBES, MICROWAVE SWITCHING, GAS FILLED
TUNEABLE AND BROADBAND TR/TR LIMITERS

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 8)	CV 6206	English Electric (EEN) Valve Co Ltd	BS 818 WF 405L	Frequency range 9.4 to 10.0 GHz., Maximum peak power 200 kW.	F	QA
DEF STAN 59-60 (PART 8)	DEF STAN 59-60/08/036	English Electric (EEN) Valve Co Ltd	BS 817 VX2718	Frequency range 8.5 to 9.0 GHz., Maximum peak power 10 kW.	F	QA

(For further details refer to the Defence Standard and the Detail Specification)

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	Frequency Range (Ghz)	Max. Peak Input power (kW)	Max. Mean Input Power (W)	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 11)	59-60/11/001	English Electric Valve Co Ltd (EEN)	BS 536	8.5 to 9.0	20	18	F	QA
	59-60/90/001	English Electric Valve Co Ltd (EEN)	VX 9216 (CV 6005)	9.0 to 10.0	20	18	F	QA
	59-60/90/013	English Electric Valve Co Ltd (EEN)	BS 510 (CV 6107)	2.7 to 3.2	20	18	F	QA

(For further details refer to the Defence Standard and the detail specification)

TUBES, SPARK GAP, TRIGGERED

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 90)	59-60/90/104	English Electric (EEV) Valve Co Ltd	EV QT 1260 (VX 2697)	Ceramic/metal envelope. Single gap 30 kV	F	QA
	59-60/90/0116	English Electric (EEN) Valve Co Ltd	GXG 450 (VX 2730)	Metal/ceramic cylindrical envelope, screw terminations	F	QA

(For further details refer to the Defence Standard and the detail specification)

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	CHARACTERISTICS AND/OR LIMITING VALUE OF APPROVAL	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 12)	59-60/12/007	English Electric Valve Co Ltd (EEV)	SSC 556	Ceramic/metal envelope. Pulse power 12.5 MW. Anode pulse current 1000A.	F	QA

(For further details refer to the Defence Standard and the detail specification)

TUBES, TRANSMITTER, TETRODES AND PENTODES

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	Size (mm)	Max. Anode Dissipation (W)	Max. Anode Voltage	Max. Op Freq. (MHz)	Envelope	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 2)	BS CECC 45003-002	Standard Telephones and Cables Ltd (STE)	4CX250B	63 x 42	250	2000	500	Ceramic	F	QA
	BS CECC 45003-003	Standard Telephones and Cables Ltd (STE)	4CX250BM	63 x 42	250	2000	500	Ceramic	F	QA
	CV 2466	Mullard Ltd (QDD)	QQV02-6	67.5 x 22.2	3 + 3	250	500	Glass	F	QA
	CV 2798	Mullard Ltd (QDD)	QQV03-10						F	QA
		Standard Telephones and Cables Ltd (STE)	CV 2798	78.5 x 22.2	5 + 5	300	225	Glass	F	QA
	CV 2799	English Electric Valve Co Ltd (EEV)	CV 2799						F	QA
		Mullard Ltd (QDD)	CV 2799	85.5 x 46.0	10 + 10	600	600	Glass	F	QA
	BS CECC 45003-005	Mullard Ltd (QDD)	QQV06-40A (CV 2797)	104.5 x 46.0	20 + 20	-	500	Glass	F	QA

(For further details refer to the Defence Standard and the detail specification)

TUBES, TRANSMITTER, TETRODES AND PENTODES

DEF STAN 59-59 ISSUE 4
AMENDMENT 3

NATIONAL SPECIFICATION NUMBER	DETAIL SPECIFICATION NUMBER	MANUFACTURER AND CODE	PRODUCT CODE	Size (mm)	Max. Anode Dissipation (W)	Max. Anode Voltage	Max. Op Freq. (MHz)	Envelope	ASSESS LEVEL	TYPE OF APP.
DEF STAN 59-60 (PART 2)	CV 2130	English Electric Valve Co Ltd	CV 2130	130 x 62	125	3000	120	Glass	F	QA
		Mullard Ltd	(QDD) QY3-125						F	QA
	CV 6184	English Electric Valve Co Ltd	(EEV) CV 6184	232 x 180	10kW	7.5 kV	30	Ceramic/ metal	F	QA

(For further details refer to the Defence Standard and the detail specification)