

TRAVELLING WAVE TUBE

Type 7641

The 7641 is an intermediate power amplifier designed for use in telecommunication systems, giving an extremely flat r.f. gain of approximately 27dB and a saturated output of 250mW in the band 1700-2300Mc/s. R.F. input and output connections are made via well-matched 50Ω Type N coaxial couplers. Focusing is achieved with a periodic permanent magnet system which is supplied with the tube to form a packaged assembly. D.C. connections to the tube are made via colour coded flexible leads. As the tube is convection cooled, no forced air supply is required.

All voltages quoted are with respect to cathode. In practice the collector is normally earthed.

	<u>Normal</u>	<u>Maximum</u>	
Heater voltage	6.3	-	V
Heater current	1.3	1.37	A
Wehnelt voltage	0-20	-	V
Anode voltage	350	480	V
Anode current	0	0.05	mA
Helix voltage	500	600	V
Helix current	0.5	2	mA
Collector voltage	500	600	V
Collector current	6	7	mA
R.F. gain at 2000Mc/s	27 (min)	-	dB
Noise figure	-	28	dB
Low level noise figure	-	26	dB
Cold attenuation	45 (min)	-	dB
Hot match (input)	1.5:1	-	-
Hot match (output)	1.75:1	-	-
Gain flatness (over any 10Mc/s)	-	0.02	dB/Mc/s
Cold match (input)	-	1.5	-
Cold match (output)	-	1.5	-

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