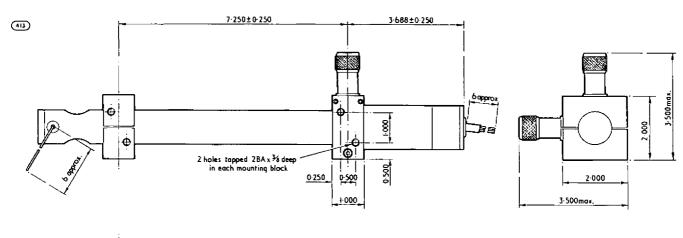
TRAVELLING WAVE TUBE Type 7641

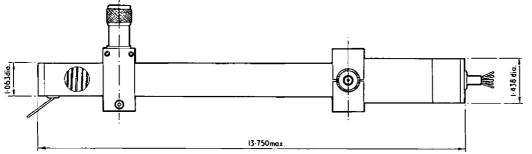
The 7641 is an intermediate power amplifier designed for use in telecommunication systems, giving an extremely flat r.f. gain of approximately 27dB and a saturated output of 250mW in the band 1700-2300Mc/s. R.F. input and output connections are made via well-matched 50N Type N coaxial couplers. Focusing 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.

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

THE M-O VALVE CO. LTD., Brook Green, London, W.6. England.





COLOUR CODE FOR LEADS		
Heater	Brown	
Cathode	Yellow	
Control grid	Green	
Accelerator	Blue	
Helix.	Orange	
Collector	Red	