

COAXIAL COUPLERS

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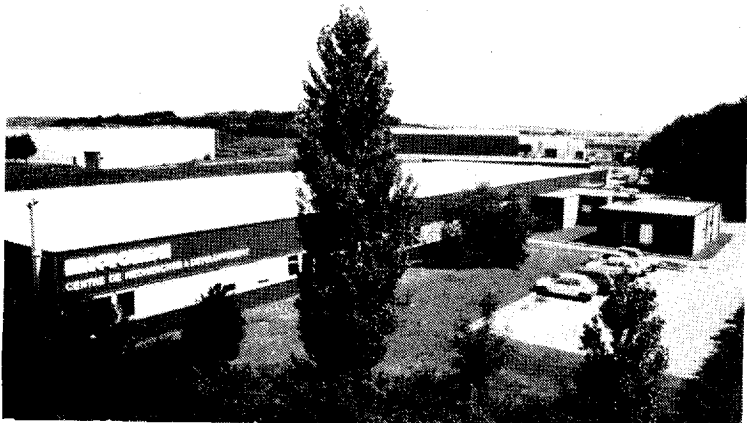
1 – MANUFACTURERS CODE NUMBERS

RADIALL, Military supply code manufacturer F0503 and F6507, is a qualified supplier of coaxial couplers under military specifications, as well as other microwave components, to various governmental agencies. Radiall Quality Assurance is fully approved by NATO (AQAP4). The following is a partial listing of national stock numbers which RADIALL has provided to the French Ministry of Defence.

MSCM	RADIALL Part number	NSN
F657	R 432 134	5985 14 313 7794
	R 432 171	5985 14 309 9409
	R 432 271	5985 14 309 9410
	R 432 274	5985 14 324 2002
	R 432 275	5985 14 367 8714
	R 432 371	5985 14 300 2509
	R 432 432	5985 14 327 7287
	R 432 433	5985 14 315 5751
	R 432 464	5985 14 356 8349
	R 432 472	5985 14 337 0311
	R 432 531	5985 14 350 6498
	R 432 533	5985 14 374 8394
	R 432 534	5985 14 353 7761
	R 432 631	5985 14 322 4824
	R 432 632	5985 14 331 9482
	R 432 634	5985 14 318 2466
	R 432 763	5985 14 297 5020
	R 432 951	5985 14 380 7448
	R 432 464	5985 14 386 8557
	R 432 523	5985 14 376 0750
R 432 611	5985 14 421 9734	
R 432 613	5985 14 418 7019	
R 432 723	5985 14 362 3159	

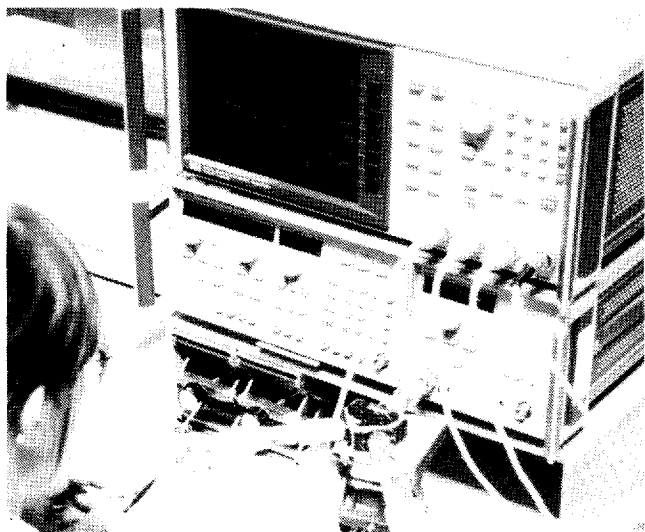
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2 – FACILITIES AND CUSTOMERS



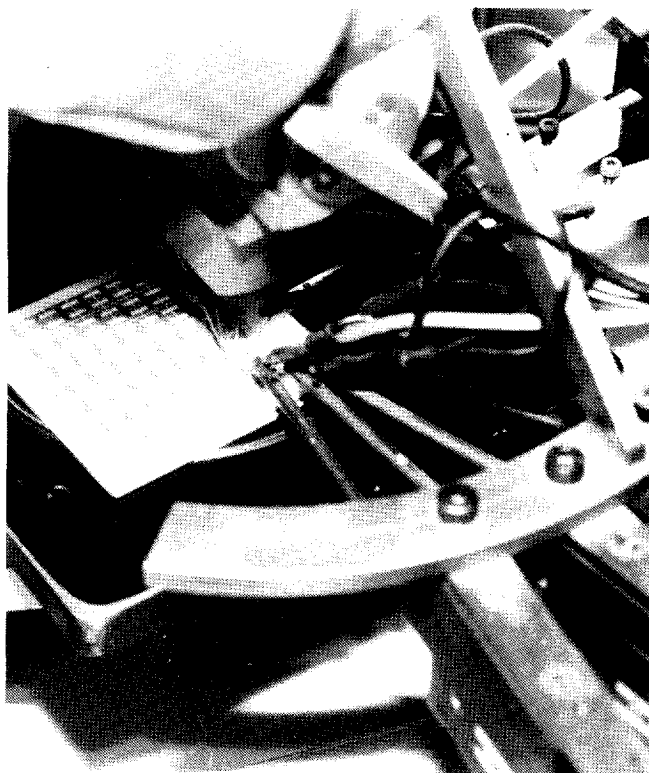
RADIALL Microwave dept. facility

Thanks to RADIALL's long experience, recognized quality, innovation, and sustained high investment in research, development, and production efficiency, it has become the **number one European manufacturer of coaxial connectors**. RADIALL has therefore risen to the forefront in the field of microwave components.



Microwave components testing

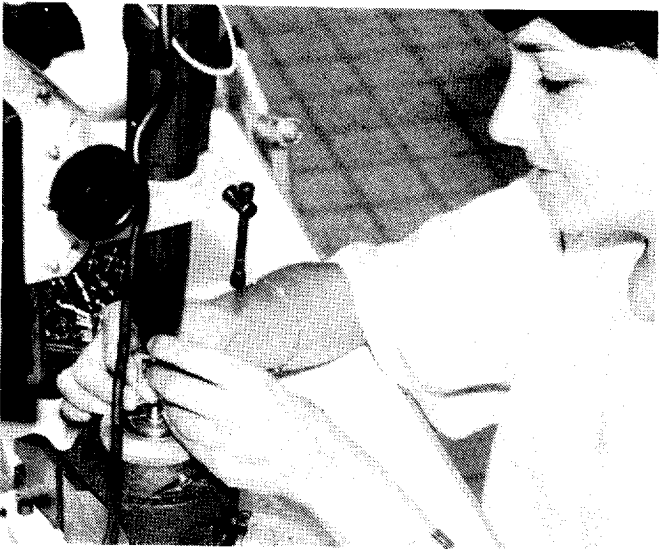
Located at l'Isle d'Abeau (near Lyon) in the heart of the Rhone/Alpes region, crossroads of French high technology, RADIALL's microwave department has specialized for some 25 years in the design and manufacture of passive microwave components



Thin film resistors screening

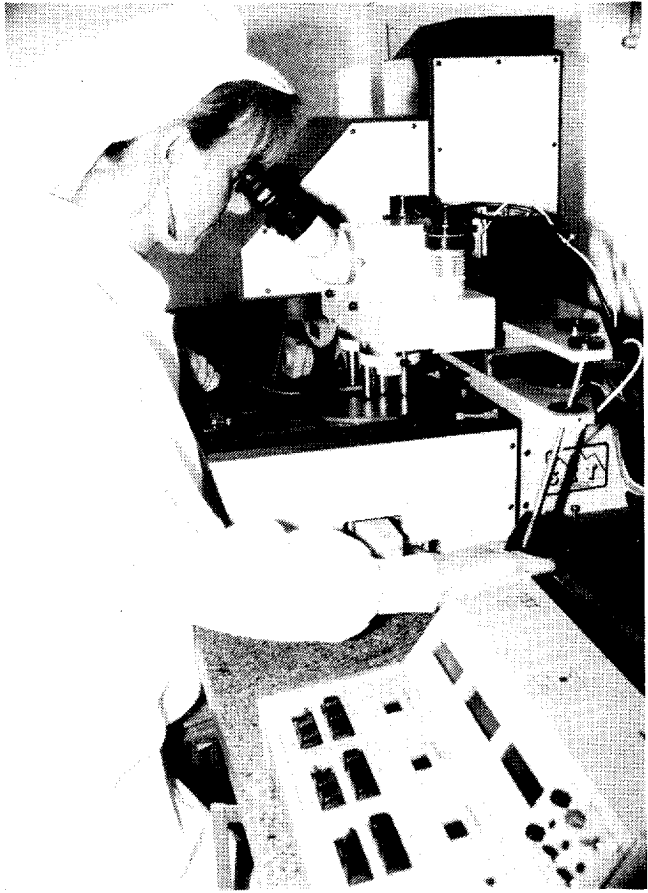
A wide range of products from DC – 1 GHz to DC – 46 GHz coupled with a long and successful experience in all aspects of research, production, inspection, and quality testing are extremely advantageous for meeting the needs of civilian and military professional markets (aeronautics, space exploration, radar, telecommunications and radio communications, instrumentation, and computer science).

COAXIAL COUPLERS



Termination assembly station

RADIALL microwave divisions components are marketed on an international sales network. Our subsidiaries and agents situated world – wide, are capable of providing technical solutions using a systematic approach to optimizing costs and services, for standard products as well as for development of optional and custom–built products.



Thin film etching

Isle d'Abeau factory is rated **AQAP 4** by the **Quality Assurance** system in accordance with **NATO** requirements and procedures. The manufacture and quality testing of **ESA** – certified attenuators, terminations, and couplers have enabled **RADIALL** to participate for many years in all major European and international space programs. This fact testifies to the level of quality and reliability attained by the components produced by this division.

COAXIAL COUPLERS

3 – GENERAL SPECIFICATIONS

Designed to meet MIL C 15370, MIL P 23971 and MIL E 5400

3.1 ENVIRONMENTAL CHARACTERISTICS

SERIES	R 432070	R 433...	R 4329...
OPERATING TEMPERATURE RANGE (°C)	-25/+70	-40/+100	-40/+85
STORAGE TEMPERATURE RANGE (°C)	-25/+70	-40/+100	-55/+100
VIBRATION (MIL STD 202)	N/A	Method 204 Cond.D	
SHOCK (MIL STD 202)	N/A	Method 213 Cond.C	

3.2 MECHANICAL CHARACTERISTICS, MATERIALS AND FINISHES

CONSTRUCTION		SPLASHPROOF
RF BODY		Aluminium black painted
CONNECTORS	SMA	Stainless steel, Passivated
	TNC	Stainless steel, Passivated
	N	Brass, Nickel Plated

3.3 MANUFACTURING AND QUALITY ASSURANCE

RADIALL maintains a state of the art computer aided designed system, a well equipped precision machining factory, a modern component assembly area and an extensive collection of RF test (up to 40 GHz) and environmental test fixtures .

After assembly, each individual coupler is subjected to thermal cycling. This operation stabilizes the R performances and thus, assures trouble free RF performance drift during life (See FLOW CHART).

Special testing is available upon request.