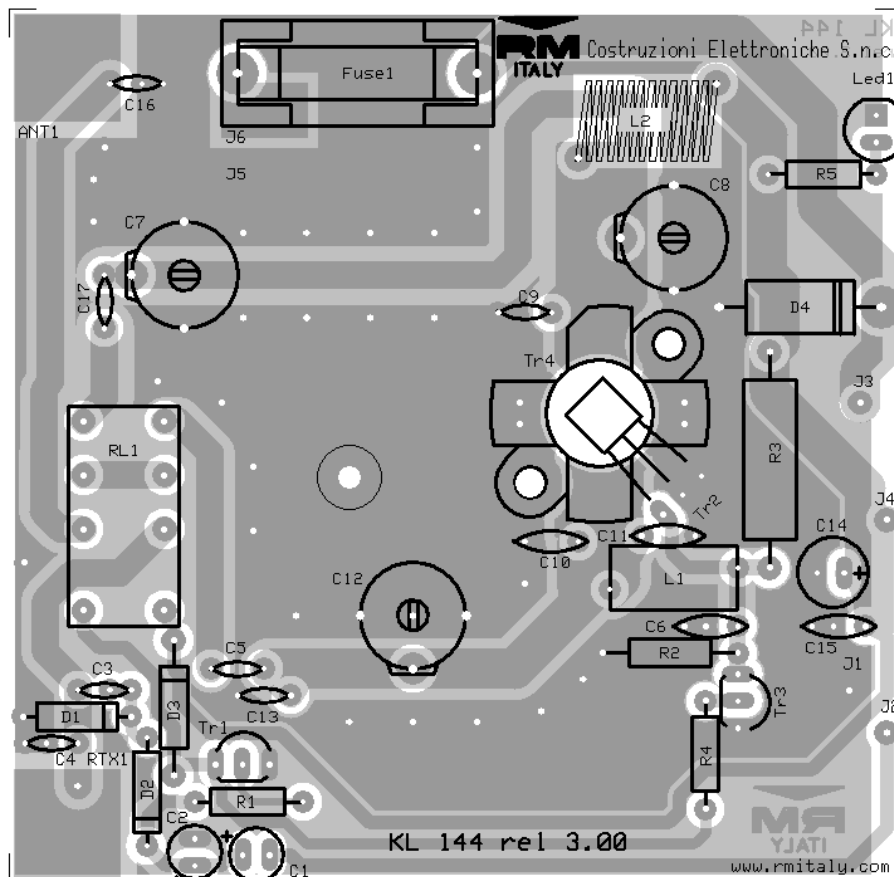
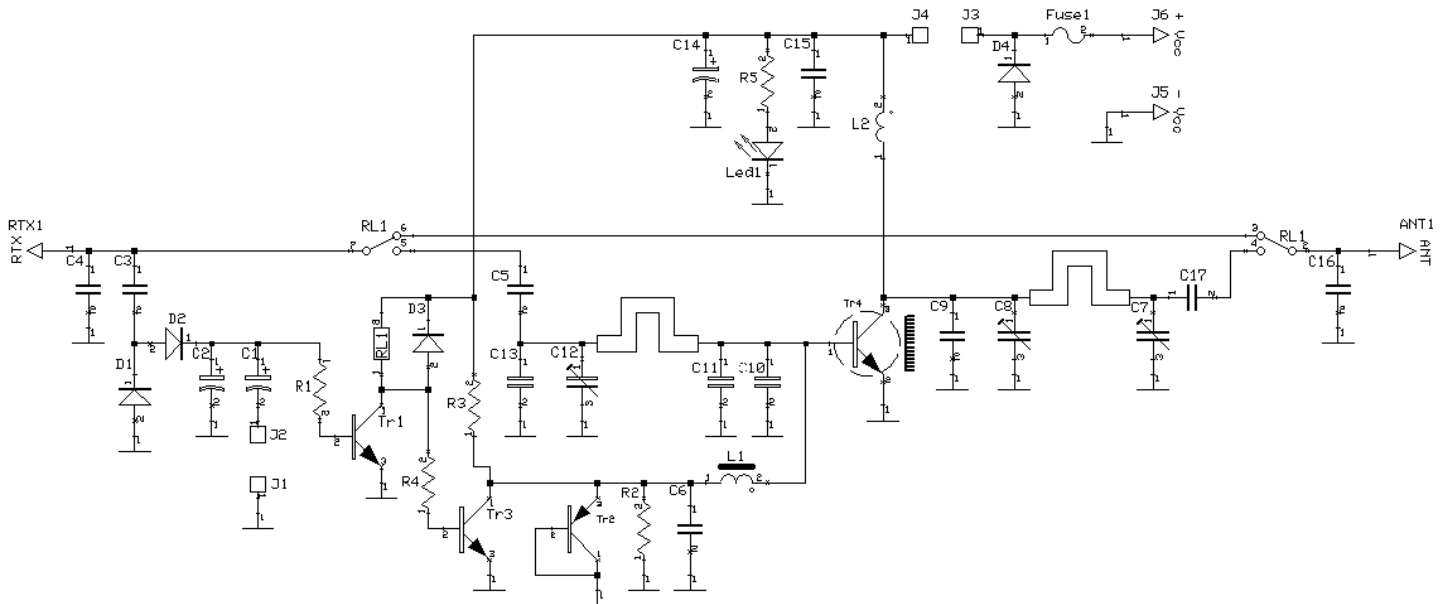


Mod. 144 linear amplifier

Schematic diagram

Version 3.00



List of components

C ₁	= 22 μ F	16 V	
C ₂	= 2,2 μ F	16 V	
C ₃	= 2,2 pF	50 V	NP0
C ₄	= 3,3 pF	50 V	NP0
C ₅	= 68 pF	50 V	NP0
C ₆	= 10 nF	50 V	
C ₇	= Trimmer	10 - 80 pF	
C ₈	= Trimmer	10 - 80 pF	
C ₉	= 68 pF	500 V	NP0
C ₁₀	= 82 pF	50 V	NP0
C ₁₁	= 82 pF	50 V	NP0
C ₁₂	= Trimmer	10 - 80 pF	
C ₁₃	= 47 pF	50 V	NP0
C ₁₄	= 47 μ F	25 V	
C ₁₅	= 10 nF	50 V	
C ₁₆	= 3,3 pF	50 V	NP0
C ₁₇	= 22 pF	500 V	NP0
R ₁	= 2,2 K Ω	$\frac{1}{4}$ W	
R ₂	= 10 Ω	$\frac{1}{2}$ W	
R ₃	= 120 Ω	2W	
R ₄	= 12 K Ω	$\frac{1}{4}$ W	
R ₅	= 1,0 K Ω	$\frac{1}{4}$ W	
D ₁ = D ₂	= 1N4148		
D ₃	= 1N4004		
D ₄	= 1N5400		
Led ₁	= Led rosso		
Tr ₁ = Tr ₃	= BC 547		
Tr ₂	= BC 557		
Tr ₄	= SD1446		
L ₁	= VK 200		
L ₂	= ANRA 455 12 turns ϕ 6 mm wire ϕ 1 mm		
RI ₁	= Relè 12 V 3022.9.012		
Fuse	= 8 A		
S ₁	= Switch (SSB - FM)		
S ₂	= Switch (ON - OFF)		



SD1446

RF POWER BIPOLAR TRANSISTORS UHF MOBILE APPLICATIONS

FEATURES SUMMARY

- 50 MHz
- 12.5 VOLTS
- EFFICIENCY 55%
- COMMON EMITTER
- GOLD METALLIZATION
- $P_{OUT} = 70 \text{ W MIN. WITH } 10 \text{ dB GAIN}$

DESCRIPTION

The SD1446 is a 12.5 V Class C epitaxial silicon NPN planar transistor designed primarily for land mobile transmitter applications. This device utilizes emitter ballasting and is extremely stable and capable of withstanding high VSWR under operating conditions.

Figure 1. Package

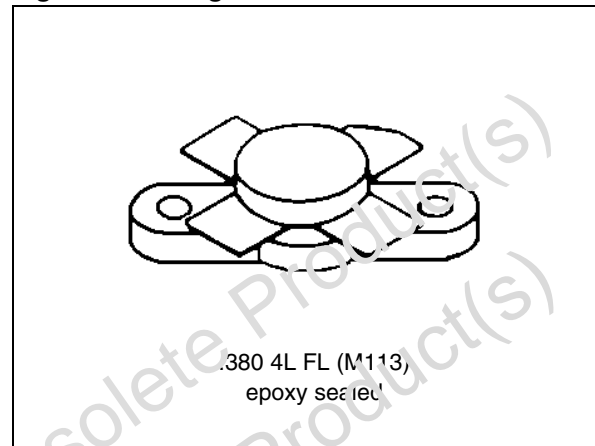


Figure 2. Pin Connection

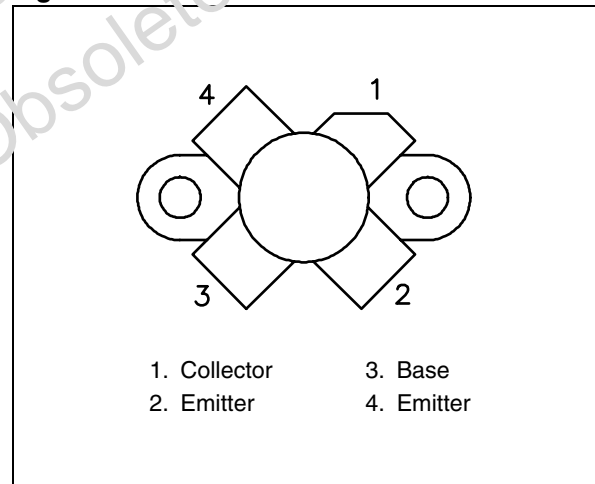


Table 1. Order Codes

Order Codes	Marking	Package	Packaging
SD1446	SD1446	M113	PLASTIC TRAYS