

TM-V71A

SERVICE MANUAL

KENWOOD

Kenwood Corporation

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Photo is TM-V71A.

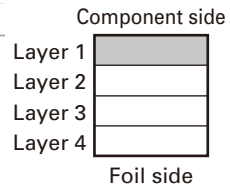
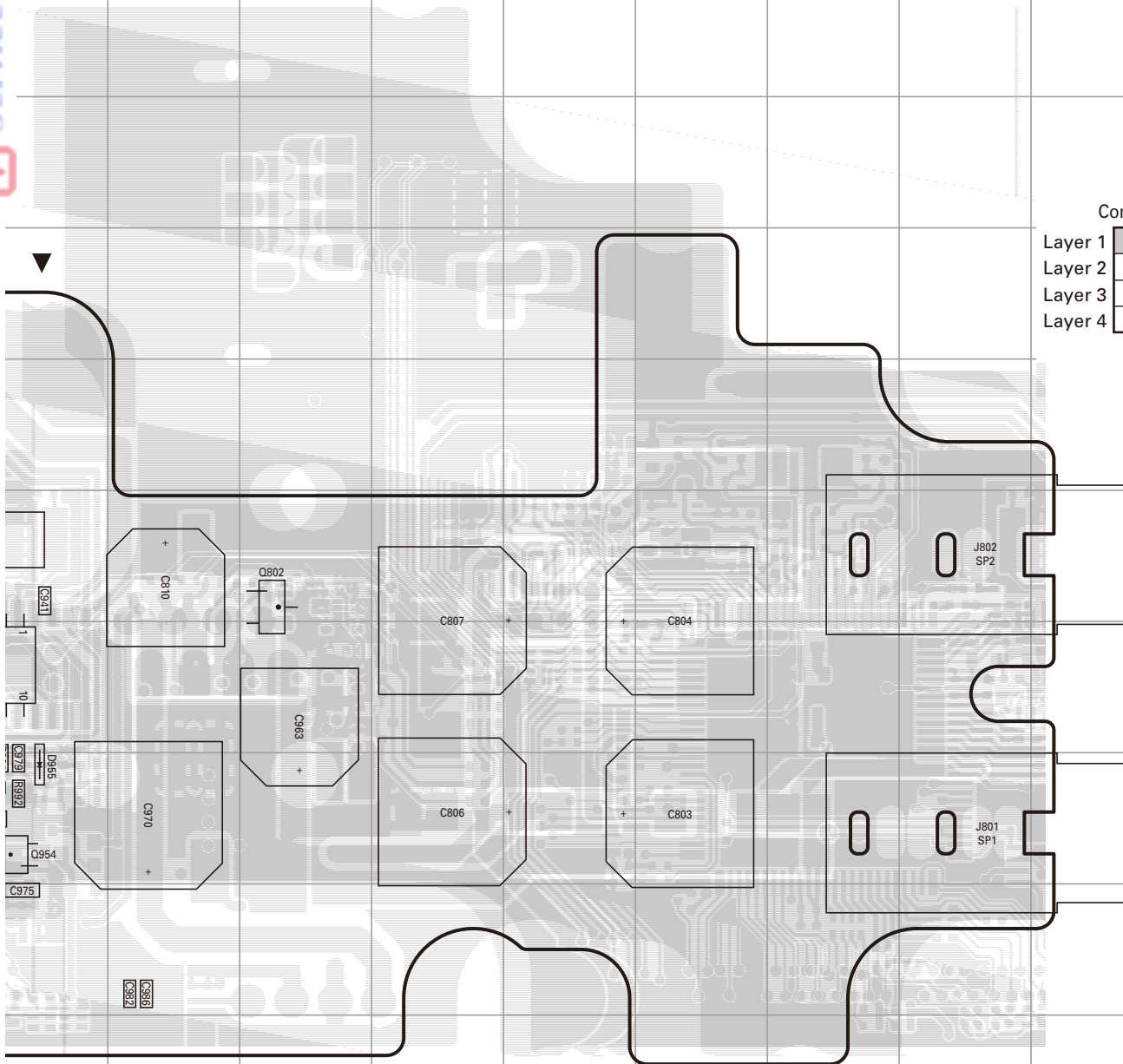
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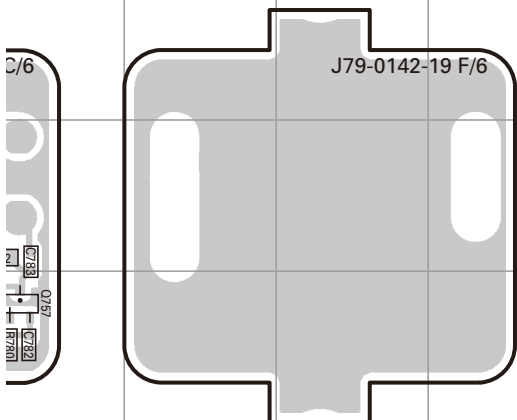
PC BOARD TM-V71A/V71

TX-RX UNIT (X57-731X-XX) (D/6) : CONTROL SECTION

0-11 : K 0-21 : M4 2-71 : E Component side view (J79-0142-19 D/6)



TX-RX UNIT (F/6) : VCO B SECTION



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC916	6E	Q757	13J	D751	13I
IC917	8I	Q802	6L	D753	13H
IC918	7H	Q916	5H	D755	12H
IC919	6G	Q917	5G	D760	12I
IC920	6H	Q918	6G	D916	6G
IC921	7J	Q952	8J	D951	6D
Q701	13F	Q954	8J	D952	7D
Q706	12F	D701	13F	D953	7D
Q707	13G	D703	13E	D955	8J
Q751	13I	D705	12E		
Q756	12I	D710	12F		

SPECIFICATIONS

General			TM-V71A	TM-V71E	TM-V71A
			K Type	E Type	M4 Type
Guaranteed range	Band A & B	TX & RX	144~148MHz	144~146MHz	
			438~450MHz	430~440MHz	
Frequency range	Band A	RX	118 ~ 524MHz		-
	Band B		136~524MHz		-
			800~1300MHz (excluding cellular band)		-
Mode			F2D/ F3E		
Antenna impedance			50 Ω		
Operating temperature range			-20°C~+60°C (-4°F~+140°F)		
Power requirement			13.8 V DC±15% (Negative ground)		
Frequency stability			Within ±5 ppm (-10°C~+50°C)		
Current	TX	VHF	HI	Less than 13.0A	-
			MID	Less than 5.5A	Less than 9.0A
			LOW	Less than 4.0A	
		UHF	HI	Less than 13.0A	-
			MID	Less than 6.5A	Less than 9.0A
			LOW	Less than 5.0A	
	RX	Less than 1.2A (at 2W audio output)			
Dimensions (W x H x D)	Without projections		Panel: 140 x 43 x 38.2 mm (5.51" x 1.69" x 1.50") Body (with Panel): 140 x 43 x 180.7 mm (5.51" x 1.69" x 7.11")		
	With projections		Panel: 140 x 43 x 55.4 mm (5.51" x 1.69" x 2.18") Body (with Panel): 140 x 43 x 213.1 mm (5.51" x 1.69" x 8.39")		
Weight (approx.)			Body (with Panel): 1.5 kg (3.3 lbs)		
Transmitter					
RF power output	HI		50W		-
	MID		Approx. 10W		25W
	LOW		Approx. 5W		
Modulation			Reactance modulation		
Maximum frequency deviation			Within ±5kHz		
Spurious radiation			Less than -60dB		
Modulation distortion (300Hz~3kHz)			Less than 3%		
Microphone impedance			600Ω		
Receiver					
Circuitry			Double super heterodyne		
Intermediate frequency	1st (Band A/ Band B)		45.05MHz/ 49.95MHz		
	2nd (Band A/ Band B)		455kHz/ 450kHz		
Sensitivity			Less than 0.16μV		
Squelch sensitivity			Less than 0.1μV		
Selectivity	-6dB		More than 11kHz		
	-50dB		Less than 30kHz		
Low frequency output (8Ω)			More than 2W (at 5% distortion)		



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