REPLACEMENT PART REFERENCE GUIDE, VHF-3500+

AN-75-035

ORIGINAL PART	VHF-3500+		
REPLACEMENT PART	VHF-3500A+		

Replacement Part has been judged by Mini-Circuits Engineering as a suitable replacement to Original Part

MECHANICAL DIMENSIONS

CASE STYLE: FF704

Replacement pat uses same case style as original part

CONCLUSION:

1. FORM-FIT-FUNCTIONAL ANALYSIS:

The Replacement part is FORM, FIT compatible.

Following is the summary of changes/ improvements in the specification:

Floorited	VHF-3500+					VHF-3500A+				
Electrical Parameters	Frequency, MHz		Specification			Frequency, MHz		Specification		
	Min	Max	MIN	ТҮР	MAX	Min	Max	MIN	ТҮР	MAX
Pass Band Insertion Loss (dB)	3900	9500	-	-	2	3900	4000	-	-	2
	4000	8500	-	-	1.5	4000	7000	-	-	1.5
Pass Band Return Loss (dB)	3650	9500	-	14	-	3900	7000	-	14	-
Stop Band Rejection (dB)	DC	2900	-	30	-	DC	2900	-	30	-
	DC	2800	20	-	-	DC	2800	20	-	-

For typical performance see paragraph 2

2. TYPICAL PERFORMANCE COMPARISON AT ROOM TEMPERATURE:

	VHF-3500+				VHF-3500A+			
	Freq, MHz	Min	Avg	Max	Freq, MHz	Min	Avg	Max
Passband Insertion loss, dB	3900-4000	0.97	1.06	1.16	3900-4000	1.03	1.13	1.28
	4000-8500	0.91	1.00	1.10	4000-7000	0.98	1.08	1.23
	8500-9500	1.29	1.66	1.96				
Stopband Rejection, dB	DC-2800	31.41	32.02	32.58	DC-2800	30.47	31.45	32.04
	DC-2900	31.41	32.02	32.58	DC-2900	30.47	31.45	32.04
Passband Return loss IN, dB	3650-3900	10.61	12.71	14.57				
	3900-7000	11.46	12.82	14.50	3900-7000	11.37	12.50	13.57
	7000-9500	11.49	13.48	15.45				
Passband Return loss IN, dB	3650-3900	11.73	14.60	16.34				
	3900-7000	12.00	13.37	15.15	3900-7000	11.02	12.31	13.49
	7000-9500	10.23	12.18	14.36				

Note: Above data is from the summary of 50 pcs from each model

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