

REPLACEMENT PART REFERENCE GUIDE, ZQL-2700MLNW+

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

ORIGINAL PART:	ZQL-2700MLNW+	
REPLACEMENT PART:	ZQL-2G22G70W3+	

MECHANICAL DIMENSIONS

Case Style: CW686
Replacement part uses same case style as original part.

CONCLUSION:

1) FORM-FIT-FUNCTIONAL ANALYSIS_a:

The Replacement Part is Form, Fit compatible.

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

Parameter	Original Part ZQL-2700MLNW+	Replacement Part ZQL-2G22G70W3+
Gain	25 dB, Min No Max Spec specified	29 dB, Min 36 dB, Max
Gain Flatness	±2.3 dB, Max	±1.5 dB, Max
P1dB	No Min Spec Specified	+22.5 dBm, Min
OIP3	No Min Spec Specified	+36 dBm, Min
Input VSWR	No Min Spec Specified	1.5:1, Max
Output VSWR	No Min Spec Specified	1.5:1, Max
DC Supply Current	350 mA, Max	340 mA, Max

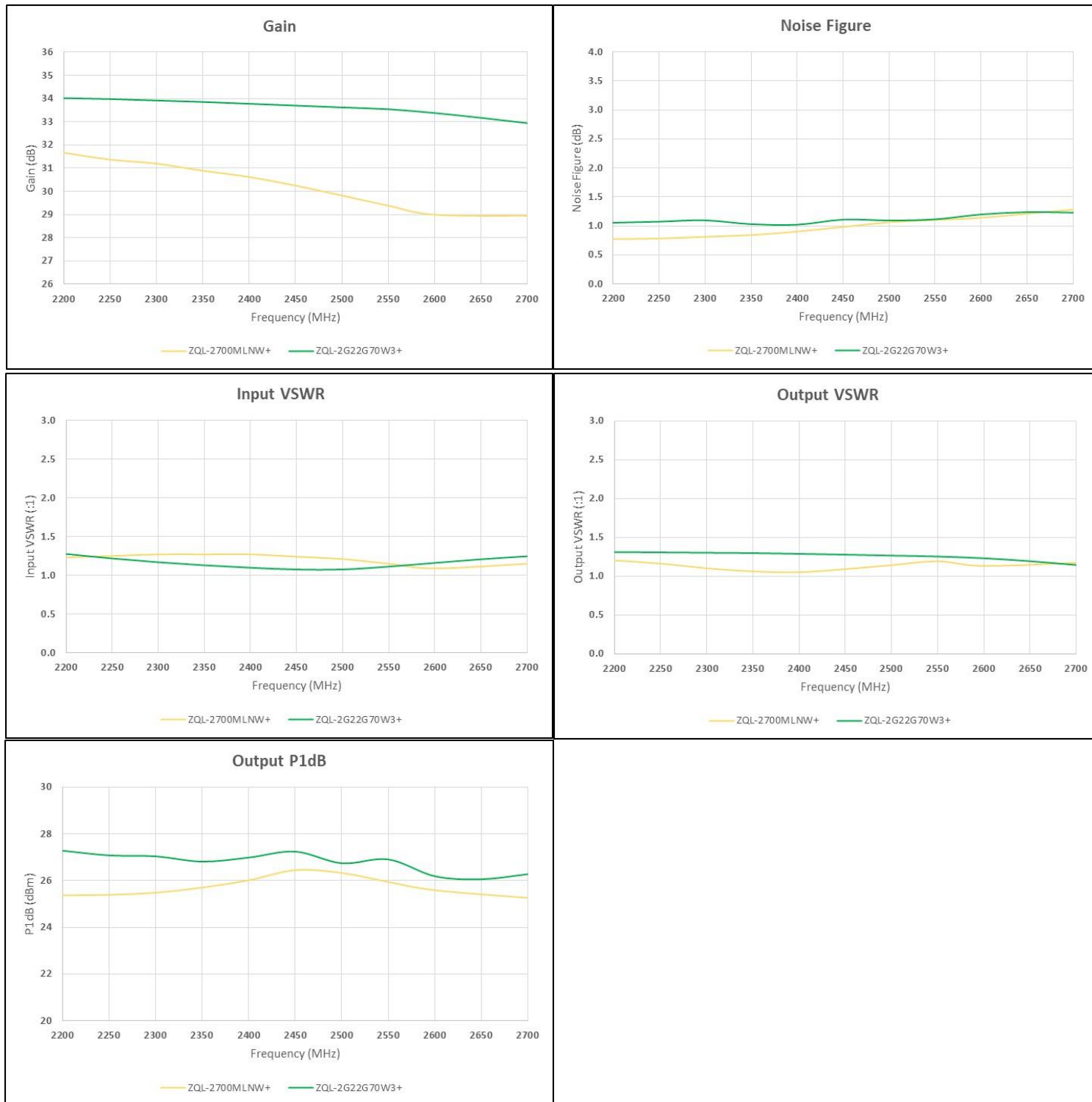
For typical performance and graphs: See paragraphs 2 and 3

2) TYPICAL PERFORMANCE COMPARISON AT ROOM TEMPERATURE:

MODEL: ZQL-2700MLNW+ (Original), ZQL-2G22G70W3+ (Replacement) (RF Parameters)

RF Parameter	Frequency MHz		Original Design ZQL-2700MLNW+			Replacement Design ZQL-2G22G70W3+		
	From	To	Min	Avg	Max	Min	Avg	Max
Gain (dB)	2200	2700	28.95	30.32	31.68	32.81	33.63	34.09
Noise Figure (dB)	2200	2700	0.77	0.97	1.28	0.89	1.11	1.45
P1dB (dBm)	2200	2700	25.27	25.76	26.45	25.47	26.80	27.78
Input VSWR (:1)	2200	2700	1.09	1.21	1.27	1.04	1.13	1.31
Output VSWR (:1)	2200	2700	1.05	1.13	1.20	1.12	1.26	1.32

3) TYPICAL PERFORMANCE GRAPHS AT ROOM TEMPERATURE:





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