

Telephonics Corporation's APS-143C(V)3 is a pulse compression radar system that can transmit either a Fixed Frequency or Linearly Frequency Modulated (LFM or chirp) RF pulses between 9243 MHz and 9707 MHz at various chirp bandwidths (BW's), pulse widths (PW) and pulse repetition frequencies (PRF's). The table below defines those parameters. The radar transmitter utilizes a frequency agility technique whereby, regardless of the chirp bandwidth, the transmit spectrum occupies the entire transmit bandwidth from 9243 MHz to 9707 MHz, albeit not instantaneously.

Emission Designator	PW, micro-seconds	PRF, Hz	LFM (Chirp) BW, MHz
11M0Q0N	36	877	5.3
42M0P0N	0.110	2491	0, Fixed Frequency
42M0P0N	10.0	2491	0, Fixed Frequency
42M0P0N	10.0	1513	0, Fixed Frequency
16M0Q0N	36.0	877	10.5
18M0Q0N	10.0	2491	14.0
18M0Q0N	10.0	1513	14.0
19M0Q0N	10.0	750	14.0
19M0Q0N	10.0	395	14.0
24M0Q0N	20.5	400	18.75
26M0Q0N	36.0	877	21.0
44M0Q0N	20.5	400	37.5
47M0Q0N	36.0	877	42.15
82M0Q0N	20.5	800	75.0
90M0Q0N	30	1200	86.7
188M0Q0N	24.3	1024	178.5
188M0Q0N	24.3	878	178.5
188M0Q0N	24.3	732	178.5

Table 1. Telephonics APS-143C(V)3 Radar Transmitter Characteristics

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