



microwave technology corporation

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MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [ W x L x T ] mm.	WEIGHT Grams
						Peak	Average		
B129	0.290-0.300	20	0.40	1.25	0 to +60	500	100	48x51x26	320
B124	0.290-0.310	20	0.40	1.25	0 to +60	500	100	48x51x26	320
B127	0.300GHz±10MHz	23	0.40	1.20	0 to +60	500	100	48x51x26	320
B141	0.310-0.330	20	0.40	1.25	0 to +60	500	100	48x51x26	320
B125	0.330-0.360	19	0.35	1.30	0 to +60	500	100	48x51x26	320
B138	0.350-0.450	16	0.90	1.50	0 to +60	500	100	48x51x26	320
B131	0.375-0.383	20	0.50	1.25	0 to +60	500	100	48x51x26	320
B139	0.380-0.395	23	0.50	1.15	0 to +60	500	100	48x51x26	320
B134	0.380-0.402	20	0.50	1.35	0 to +60	500	100	48x51x26	320
B123	0.380-0.430	18	0.40	1.30	0 to +60	500	100	48x51x26	320
B135	0.385-0.402	20	0.30	1.25	0 to +60	500	100	48x51x26	320
B140	0.390-0.395	22	0.50	1.20	0 to +60	500	100	48x51x26	320
B105	0.396-0.404	25	0.50	1.20	0 to +60	500	100	48x51x26	320
B133	0.400-0.500	18	0.50	1.35	0 to +60	500	100	48x51x26	320
B136	0.400-0.520	17	0.80	1.38	0 to +60	500	100	48x51x26	320
B126	0.400GHz±10MHz	23	0.40	1.20	0 to +60	500	100	48x51x26	320
B114	0.402-0.412	23	0.50	1.20	0 to +60	500	100	48x51x26	320
B132	0.406-0.430	23	0.35	1.15	0 to +60	500	100	48x51x26	320
B128	0.412-0.422	23	0.50	1.20	0 to +60	500	100	48x51x26	320
B130	420.19-420.21MHz	25	0.25	1.12	0 to +60	500	100	48x51x26	320
B113	0.420-0.430	25	0.50	1.20	0 to +60	500	100	48x51x26	320
B106	0.424-0.431	25	0.50	1.20	0 to +60	500	100	48x51x26	320
B115	0.430-0.460	20	0.50	1.25	0 to +60	500	100	48x51x26	320
B122	0.444GHz±5MHz	25	0.40	1.20	0 to +60	500	100	48x51x26	320
B120	0.450-0.462	23	0.50	1.20	0 to +60	500	100	48x51x26	320
B121	0.450-0.470	19	0.60	1.25	0 to +60	500	100	48x51x26	320
B107	0.455-0.457	25	0.50	1.20	0 to +60	500	100	48x51x26	320
B108	0.460-0.468	25	0.50	1.20	0 to +60	500	100	48x51x26	320
B112	0.460-0.490	20	0.50	1.20	0 to +60	500	100	48x51x26	320
B109	0.463-0.470	25	0.50	1.20	0 to +60	500	100	48x51x26	320
B110	0.468-0.472	25	0.50	1.20	0 to +60	500	100	48x51x26	320
C196	0.470-0.568	20	0.35	1.22	0 to +50	500	100	52x52x26	380
C1108	0.470-0.600	16	0.90	1.40	0 to +60	500	100	48x51x26	320
C177	0.470-0.610	17	0.90	1.40	0 to +50	500	100	52x52x26	380
B111	0.487-0.494	25	0.50	1.20	0 to +50	500	100	48x51x26	320
C186	0.490-0.530	17	0.90	1.40	0 to +50	500	100	52x52x26	380
B137	0.498-0.502	25	0.35	1.12	0 to +60	500	100	48x51x26	320
C1104	0.500-0.650	18	0.50	1.35	0 to +60	500	100	48x51x26	320
C194	0.500-0.700	15	0.85	1.50	0 to +50	500	100	52x52x26	380
C197	0.568-0.665	20	0.35	1.22	0 to +50	500	100	52x52x26	380
C111	0.570-0.630	20	0.60	1.25	0 to +50	500	100	52x52x26	380
C178	0.580-0.720	18	0.70	1.35	0 to +50	500	100	52x52x26	380
C179	0.600-0.800	16	0.70	1.40	0 to +50	500	100	52x52x26	380
C192	0.610-0.650	20	0.40	1.25	0 to +50	500	100	52x52x26	380
C180	0.610-0.810	18	0.60	1.33	0 to +50	500	100	52x52x26	380
C181	0.610-0.960	15	1.10	1.55	0 to +50	500	100	52x52x26	380
C191	0.625-0.875	18	0.60	1.30	0 to +50	500	100	52x52x26	380
C1105	0.650-0.800	18	0.50	1.35	0 to +50	500	100	52x52x26	380
C189	0.650-0.850	18	0.50	1.35	0 to +50	500	100	52x52x26	380
C1101	0.650-0.900	19	0.45	1.30	0 to +50	500	100	52x52x26	380
C198	0.665-0.763	20	0.35	1.22	0 to +50	500	100	52x52x26	380
C188	0.675-0.825	20	0.40	1.25	0 to +50	500	100	52x52x26	380
C1100	0.686-0.710	20	0.40	1.20	0 to +50	500	100	52x52x26	380
C184	0.690-0.860	20	0.50	1.25	0 to +50	500	100	52x52x26	380
C1110	0.694-0.702	20	0.50	1.20	0 to +50	500	100	52x52x26	380
C193	0.700-1.000	15	0.95	1.55	0 to +50	500	100	52x52x26	380
C1111	0.710-0.718	20	0.50	1.20	0 to +50	500	100	52x52x26	380
C1106	0.750-1.000	19	0.50	1.30	0 to +50	500	100	52x52x26	380



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MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [ W x L x T ] mm.	WEIGHT Grams
						Peak	Average		
C182	0.760-0.960	19	0.50	1.30	0 to +50	500	100	52x52x26	380
C199	0.763-0.860	20	0.35	1.22	0 to +50	500	100	52x52x26	380
C152	0.790-0.880	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C1102	0.800GHz+/-15MHz	20	0.40	1.25	0 to +50	500	50	32x34x19	100
C160	0.800-0.900	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C190	0.800-0.950	19	0.50	1.27	0 to +50	500	65	35x40x26	185
C169	0.800-1.000	18	0.60	1.35	0 to +50	500	65	35x40x26	185
C185	0.800-1.100	17	0.70	1.40	0 to +50	500	100	52x52x26	380
D160	0.800-1.350	16	0.80	1.45	0 to +50	100	50	89x89x28	340
D192	0.800-2.000	14.5	0.80	1.55	+25 to ±5	100	50	70x70x22	340
C195	0.824-0.894	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C1112	0.840-0.960	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C150	0.840-0.935	20	0.40	1.25	0 to +50	500	65	35x40x26	185
D1101	0.850-2.000	14.5	0.80	1.55	0 to +50	100	50	70x70x22	340
C162	0.860-0.960	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C166	0.870-0.896	25	0.40	1.20	0 to +50	500	65	35x40x26	185
C163	0.870-0.960	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C153	0.880-0.950	20	0.50	1.25	0 to +50	500	50	32x34x19	100
C168	0.880-0.960	20	0.50	1.25	0 to +50	500	65	35x40x26	185
D1102	0.880-1.880	16	0.70	1.45	+25 to ±5	100	50	70x70x22	340
C165	0.890-0.915	25	0.50	1.15	0 to +50	500	50	32x34x19	100
C154	0.890-0.960	20	0.50	1.25	0 to +50	500	50	32x34x19	100
C173	0.890-0.960	25	0.40	1.20	0 to +50	500	100	52x52x26	380
D184	0.890-1.880	16	0.70	1.45	0 to +50	100	50	70x70x22	340
D186	0.890-2.000	16	0.70	1.45	0 to +50	100	50	70x70x22	340
C113	0.896-0.942	23	0.50	1.15	0 to +50	500	50	32x34x19	100
C1103	0.900GHz+/-15MHz	20	0.40	1.25	0 to +50	500	50	32x34x19	100
C187	0.900-0.950	25	0.40	1.12	0 to +50	500	100	52x52x26	380
D151	0.900-1.500	16	0.80	1.45	0 to +50	100	50	70x70x22	340
D1112	0.900-1.900	16	0.70	1.38	0 to +50	100	50	70x70x22	340
D162	0.900-2.000	18	0.50	1.35	+25 to ±5	100	50	70x70x22	340
D1105	0.900-2.200	15	0.90	1.50	0 to +50	100	50	70x70x22	340
C1113	0.902-0.956	20	0.50	1.25	0 to +50	500	50	32x34x19	100
C105	0.910-0.920	25	0.50	1.15	0 to +50	500	50	32x34x19	100
C106	0.910-1.050	18	0.60	1.35	0 to +50	500	50	32x34x19	100
C176	0.915-0.960	20	0.50	1.25	0 to +50	500	65	35x40x26	185
C159	0.917-0.950	23	0.40	1.15	0 to +50	500	65	35x40x26	185
C164	0.917-0.960	20	0.50	1.25	0 to +50	500	65	35x40x26	185
C183	0.930-0.960	25	0.40	1.20	0 to +50	500	100	35x40x26	185
C156	0.930-0.965	23	0.50	1.15	0 to +50	500	50	32x34x19	100
C174	0.935-0.960	25	0.30	1.15	0 to +50	500	65	35x40x26	185
D104	0.935-1.890	16	0.70	1.40	0 to +50	100	50	70x70x22	340
D181	0.935-2.000	16	0.90	1.45	0 to +50	100	50	70x70x22	340
C151	0.950-1.000	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D107	0.950-1.050	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D1116	0.950-1.225	18	0.50	1.30	0 to +50	100	50	70x70x22	340
D131	0.950-1.250	20	0.50	1.25	0 to +50	100	50	70x70x22	340
D196	0.950-1.450	18	0.70	1.35	0 to +50	100	50	70x70x22	340
D1107	0.950-1.750	18	0.50	1.35	0 to +50	100	50	70x70x22	340
D1120	0.950-2.000	16	0.80	1.40	0 to +50	100	50	70x70x22	340
D180	0.950-2.050	16	0.80	1.40	0 to +50	100	50	70x70x22	340
D190	0.950-2.150	16	0.70	1.40	0 to +50	100	50	70x70x22	340
D123	0.960-1.250	20	0.40	1.25	0 to +50	100	50	70x70x22	340
D191	0.960-2.200	15	0.85	1.50	0 to +50	100	50	70x70x22	340
D1100	0.970-1.110	18	0.60	1.30	0 to +50	500	50	32x34x19	100
D105	0.980-2.050	17	0.60	1.35	0 to +50	100	50	70x70x22	340
D109	1.000-1.100	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D173	1.000-1.400	20	0.40	1.25	0 to +50	100	50	70x70x22	340



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						Peak	Average		
D1117	1.000-1.500	20	0.50	1.25	0 to +50	100	50	70x70x22	340
D163	1.000-1.600	20	0.40	1.25	0 to +50	100	50	70x70x22	340
D106	1.000-2.000	17	0.50	1.35	0 to +50	100	50	70x70x22	340
D183	1.000-2.000	18	0.50	1.30	0 to +50	100	50	70x70x22	340
D125	1.030-1.090	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D168	1.050-1.090	26	0.40	1.10	0 to +50	500	50	32x34x19	100
D167	1.050-1.250	23	0.40	1.20	0 to +50	100	50	70x70x22	340
D1106	1.090+/-30MHz	20	0.30	1.15	0 to +50	500	50	32x34x19	100
D198	1.100-1.400	18	0.50	1.35	0 to +50	500	50	32x34x19	100
D132	1.100-1.700	20	0.50	1.25	0 to +50	100	50	70x70x22	340
D122	1.120-2.240	17	0.60	1.35	0 to +50	100	50	70x70x22	340
D169	1.135-1.175	26	0.40	1.10	0 to +50	500	50	25x29x19	60
D108	1.200-1.400	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D1115	1.200-1.400	20	0.50	1.25	-	-	-	33x34x21	90
D124	1.200-1.600	23	0.50	1.15	0 to +50	100	50	70x70x22	340
D1103	1.215-1.400	20	0.5	1.25	0 to +50	500	50	31.7x31.7x19.2	90
D145	1.230-1.370	23	0.30	1.15	0 to +50	500	50	38.10x38.10x19	185
D1111	1.270-1.330	20	0.40	1.25	0 to +50	500	50	32x34x19	100
D110	1.300-1.500	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D1119	1.300-1.530	20	0.50	1.25	0 to +50	500	50	32x34x19	100
E181	1.300-2.750	15	1.00	1.50	0 to +50	100	50	54x54x21	200
D153	1.350-1.850	20	0.50	1.25	0 to +50	100	50	70x70x22	340
D150	1.400-1.540	20	0.40	1.25	0 to +50	500	50	32x34x19	100
D111	1.400-1.600	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D1110	1.400-1.650	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D177	1.400-1.800	20	0.50	1.25	0 to +50	500	50	38x38x19	110
D112	1.400-2.500	17	0.50	1.35	0 to +50	100	50	54x54x21	200
E171	1.400-2.700	17	0.60	1.35	0 to +50	100	50	54x54x21	200
D138	1.427-1.530	23	0.50	1.15	0 to +50	500	50	32x34x19	100
D195	1.430-1.540	23	0.50	1.15	0 to +50	500	50	32x34x19	100
D1114	1.450-1.650	20	0.50	1.17	0 to +50	500	50	32x34x19	100
D189	1.452-1.492	23	0.30	1.15	0 to +50	500	50	32x34x19	100
D199	1.490-1.690	16	0.70	1.45	0 to +50	500	50	38x38x19	110
D172	1.500-1.600	20	0.30	1.25	0 to +50	500	50	32x34x19	100
D113	1.500-1.700	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D1118	1.500-2.000	20	0.50	1.15	0 to +50	100	50	70x70x22	340
E105	1.500-3.000	17	0.60	1.35	0 to +55	100	50	54x54x21	200
D158	1.540-1.740	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D159	1.555-1.595	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D185	1.575GHz+/-10MHz	20	0.40	1.25	0 to +50	500	50	32x34x19	100
D1108	1.596GHz+/-10MHz	20	0.25	1.25	0 to +50	500	50	32x34x19	100
D188	1.600-1.800	21	0.40	1.20	0 to +50	500	50	32x34x19	100
E125	1.600-2.300	20	0.40	1.25	0 to +55	100	50	54x54x21	200
E177	1.600-2.400	20	0.50	1.25	0 to +50	100	50	54x54x21	200
E165	1.600-2.600	20	0.50	1.25	0 to +55	100	50	54x54x21	200
E175	1.600-2.700	18	0.60	1.30	0 to +50	100	50	54x54x21	200
E170	1.600-2.800	19	0.60	1.26	0 to +50	100	50	54x54x21	200
D157	1.630-2.300	20	0.40	1.25	0 to +50	100	50	54x54x21	200
D1104	1.6465-1.6605	25	0.35	1.15	0 to +50	500	50	32x34x19	100
D115	1.650-1.850	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D187	1.660-1.670	30	0.25	1.09	0 to +50	500	50	32x34x19	100
D194	1.700-1.800	20	0.30	1.25	0 to +50	500	50	32x34x19	100
D116	1.700-1.900	20	0.40	1.25	0 to +50	500	50	32x34x19	100
D117	1.700-2.000	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D152	1.700-2.100	23	0.35	1.15	0 to +50	100	50	54x54x21	200
D156	1.700-2.100	20	0.50	1.25	0 to +50	250	50	41x42x20	123
E196	1.700-2.200	19	0.50	1.30	0 to +50	100	50	54x54x21	200



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						Peak	Average		
E1103	1.700-2.200	20	0.40	1.25	0 to +50	250	50	41x42x20	123
E118	1.700-2.300	23	0.35	1.20	0 to +55	100	50	54x54x21	200
E131	1.700-2.300	20	0.50	1.22	0 to +70	250	50	41x42x20	123
E119	1.700-2.400	23	0.40	1.20	0 to +55	100	50	54x54x21	200
E129	1.700-2.700	20	0.50	1.25	0 to +55	100	50	54x54x21	200
E162	1.700-4.200	16	0.60	1.50	0 to +55	250	50	41x42x20	123
D134	1.800-1.900	25	0.30	1.20	0 to +60	500	50	32x34x19	100
D120	1.800-2.000	20	0.40	1.25	0 to +50	500	50	32x34x19	100
D121	1.800-2.100	20	0.50	1.25	0 to +50	500	50	32x34x19	100
D164	1.800-2.500	20	0.50	1.22	0 to +50	100	50	54x54x21	200
D136	1.805-1.880	25	0.30	1.20	0 to +60	500	50	32x34x19	100
D133	1.855-1.925	25	0.30	1.20	0 to +60	500	50	32x34x19	100
D1109	1.850-2.170	20	0.50	1.25	0 to +60	500	100	48x51x26	320
D197	1.90	30	0.30	1.09	0 to +60	500	100	38.1x38.1x26	-
E122	1.900-2.100	20	0.40	1.25	0 to +55	500	50	32x34x19	100
E113	1.900-2.200	20	0.40	1.20	0 to +55	500	50	32x34x19	100
E106	1.900-2.300	20	0.50	1.25	0 to +55	500	50	32x34x19	100
E160	1.900-2.300	23	0.35	1.15	0 to +55	250	50	41x42x20	123
E176	1.900-2.700	20	0.50	1.25	0 to +50	250	50	41x42x20	123
F181	1.900-4.100	17	0.60	1.40	0 to +50	250	50	41x42x20	123
D146	1.930-1.990	23	0.20	1.15	-20 to +70	500	50	38.1x38.1x19	185
E166	1.990-2.500	20	0.50	1.25	0 to +55	250	50	41x42x20	123
E107	2.000-2.300	20	0.40	1.25	0 to +55	500	50	32x34x19	100
E115	2.000-2.300	18	0.60	1.27	0 to +55	250	25	25x25x13	45
E185	2.000-2.300	18	0.70	1.35	0 to +55	500	50	32x34x19	100
E108	2.000-2.500	20	0.50	1.25	0 to +55	250	50	41x42x20	123
E164	2.000-2.700	23	0.35	1.15	0 to +55	250	50	41x42x20	123
E123	2.000-3.000	20	0.50	1.25	0 to +55	250	50	41x42x20	123
E185	2.000-2.300	18	0.70	1.35	0 to +50	250	25	32x34x19	100
F105	2.000-4.000	18	0.50	1.35	0 to +55	250	50	41x42x20	123
F180	2.000-4.200	17	0.60	1.40	0 to +55	250	50	41x42x20	123
E173	2.030GHz+/-30MHz	23	0.40	1.20	0 to +50	100	50	32x34x19	100
E124	2.100-2.300	20	0.40	1.25	0 to +55	500	50	32x34x19	100
E151	2.100-2.300	25	0.30	1.15	0 to +55	250	50	41x42x20	123
E109	2.100-2.400	20	0.40	1.25	0 to +55	500	50	32x34x19	100
E192	2.100-2.400	30	0.25	1.10	0 to +50	250	50	41x42x20	123
E188	2.100-2.500	20	0.40	1.25	0 to +50	250	50	41x42x20	123
E172	2.100-2.600	23	0.35	1.15	0 to +50	250	50	41x42x20	123
E195	2.110-2.170	20	0.30	1.22	-54 to +85	250	25	32x34x19	100
E1101	2.130-2.230	25	0.25	1.15	-54 to +85	250	25	32x34x19	100
E110	2.200-2.300	23	0.40	1.15	-54 to +85	250	25	32x34x19	100
E1100	2.200-2.300	20	0.30	1.25	0 to +55	250	25	25x25x13	45
E133	2.200-2.500	23	0.40	1.15	0 to +55	250	25	41x42x20	123
E111	2.300-2.500	23	0.50	1.15	-54 to +85	250	25	32x34x19	100
E121	2.300-2.500	20	0.40	1.25	0 to +55	250	25	25x25x13	45
E128	2.300-2.500	17	0.45	1.30	-40 to +55	500	50	25x29x18	60
E167	2.300-2.700	20	0.40	1.26	0 to +40	250	25	25x25x13	45
E168	2.300-2.700	23	0.40	1.25	-30 to +70	250	50	41x42x20	123
E126	2.300-3.100	20	0.40	1.25	0 to +55	250	50	41x42x20	123
E178	2.322-2.343	30	0.30	1.09	0 to +55	250	50	41x42x20	123
E189	2.350-2.550	25	0.30	1.12	0 to +55	250	25	25x25x13	45
E180	2.400-2.490	20	0.40	1.25	0 to +55	250	25	25x25x13	45
E186	2491GHz+/-10MHz	20	0.25	1.25	0 to +55	250	25	32x34x19	100
E1102	2.400-2.500	23	0.40	1.15	0 to +55	250	50	41x42x20	123
K1113	25835GHz+/-10MHz	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
E117	2.500-2.900	20	0.40	1.25	0 to +55	250	25	25x25x13	45
E174	2.500-3.000	25	0.30	1.15	0 to +50	250	50	41x42x20	123
E116	2.500-3.300	19	0.50	1.30	0 to +55	250	25	25x25x13	45



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MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [ W x L x T ] mm.	WEIGHT Grams
						Peak	Average		
F106	2.500-3.600	20	0.40	1.25	0 to +55	250	25	32x34x19	100
E187	2656GHz+/-10MHz	20	0.25	1.25	0 to +55	250	25	32x34x19	100
F107	2.600-3.400	20	0.40	1.25	0 to +55	250	25	32x34x19	100
F108	2.600-5.200	18	0.50	1.35	0 to +55	250	25	32x34x19	100
F167	2.600-5.200	17	0.60	1.35	0 to +55	250	25	44x44x20	-
E183	2.700-2.900	20	0.40	1.20	0 to +55	250	25	25x25x13	45
E190	2.700-2.900	18	0.40	1.30	0 to +55	250	25	25x25x13	45
E197	2.700-3.100	18	0.50	1.28	0 to +60	250	25	25x25x13	45
E120	2.700-3.100	20	0.40	1.25	0 to +55	250	25	25x25x13	45
E134	2.700-3.100	20	0.40	1.25	0 to +50	250	50	41x42x20	123
E156	2.700-3.100	30	0.40	1.10	0 to +55	250	50	41x42x20	123
E153	2.700-3.200	20	0.40	1.25	0 to +55	250	25	32x34x19	100
G105	2.700-5.400	17	0.50	1.35	0 to +55	250	25	32x34x19	100
E184	2.700-3.300	20	0.40	1.20	0 to +50	250	25	32x34x19	100
E193	2.700-3.400	20	0.50	1.25	0 to +55	250	25	32x34x19	100
F109	2.800-3.500	20	0.40	1.25	0 to +55	250	25	32x34x19	100
F168	2.900-3.600	18	0.50	1.30	-54 to +85	250	25	32x34x19	100
F161	3.000-3.400	25	0.30	1.12	-54 to +85	250	25	32x34x19	100
F166	3.000-3.600	19	0.50	1.25	0 to +55	250	25	25x25x13	45
F170	3.000-3.600	20	0.40	1.25	-54 to +85	250	25	32x34x19	100
F115	3.000-4.000	20	0.40	1.25	0 to +55	250	25	32x34x19	100
F164	3.000-4.200	20	0.50	1.20	-54 to +85	250	25	32x34x19	100
F165	3.000-5.000	20	0.50	1.25	-54 to +85	250	25	32x34x19	100
G175	3.000-6.000	18	0.55	1.35	-54 to +85	250	25	25x29x18	60
F110	3.200-4.000	20	0.40	1.25	0 to +55	250	25	32x34x19	100
G168	3.300-4.900	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
F176	3.300-4.900	20	0.50	1.25	-54 to +85	250	25	32x34x19	100
G170	3.300-6.600	18	0.60	1.35	-54 to +85	250	25	25x29x18	60
F178	3.400-3.900	23	0.30	1.15	-40 to +70	250	25	20x20x15	35
F162	3.400-3.600	20	0.50	1.25	0 to +55	250	25	25x25x13	45
F111	3.400-4.200	23	0.40	1.15	0 to +55	250	25	25x29x18	60
F179	3.400-4.200	20	0.40	1.20	-40 to +70	250	25	20x20x15	35
G155	3.400-4.600	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
F172	3.400-4.900	20	0.50	1.25	-54 to +85	250	25	32x34x19	100
G166	3.400-6.500	18	0.50	1.35	-54 to +85	250	25	25x29x18	60
H194	3.400-7.750	16	0.60	1.40	-54 to +85	250	25	25x29x18	60
H195	3.400-8.700	14	0.80	1.50	-54 to +85	250	25	25x29x18	60
F130	3.450-4.450	22	0.40	1.15	0 to +55	250	25	25x29x18	60
F177	3.500-4.000	20	0.40	1.20	0 to +55	250	25	25x25x13	45
F113	3.500-4.200	23	0.40	1.15	0 to +55	250	25	25x29x18	60
F171	3.500-4.220	23	0.40	1.15	-54 to +85	250	25	25x29x18	60
F154	3.500-4.300	23	0.40	1.20	-54 to +85	250	25	25x29x18	60
G167	3.500-5.500	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
G174	3.500-6.100	20	0.50	1.20	-54 to +85	250	25	25x29x18	60
F160	3.600-4.200	25	0.30	1.15	-54 to +85	250	25	25x29x18	60
G106	3.600-6.500	20	0.40	1.25	0 to +55	250	25	25x29x18	60
F114	3.625-4.200	25	0.30	1.15	-54 to +85	250	25	25x29x18	60
F174	3.625-4.250	23	0.35	1.15	-54 to +85	250	25	25x29x18	60
F112	3.700-4.200	25	0.30	1.15	-54 to +85	250	25	25x29x18	60
F155	3.700-4.200	25	0.30	1.15	-54 to +85	250	25	19x19x13	30
G121	3.700-4.700	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
H153	3.700-8.300	17	0.60	1.35	-54 to +85	250	25	25x29x18	60
F169	3.800-4.300	25	0.35	1.15	-54 to +85	250	25	25x29x18	60
H1109	3.900-8.200	17	0.60	1.35	-54 to +85	250	25	25x29x18	60
G107	4.000-4.600	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
G108	4.000-5.000	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
G109	4.000-6.000	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
H198	4.000-7.000	20	0.45	1.35	0 to +55	250	25	25x29x18	60



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MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [ W x L x T ] mm.	WEIGHT Grams
						Peak	Average		
H105	4.000-8.000	18	0.50	1.35	0 to +55	250	25	25x29x18	60
G117	4.200-4.400	20	0.40	1.25	-54 to +85	250	25	21x21x13	35
G118	4.200-4.400	26	0.30	1.20	-54 to +85	250	25	25x29x18	60
G110	4.200-4.500	25	0.40	1.15	-54 to +85	250	25	25x29x18	60
G164	4.200-5.000	25	0.40	1.15	-54 to +85	250	25	25x29x18	60
G111	4.200-5.500	25	0.40	1.15	-54 to +85	250	25	25x29x18	60
G122	4.400-5.000	20	0.40	1.25	-54 to +85	250	25	21x21x13	35
G180	4.400-5.000	23	0.30	1.15	-40 to +70	250	25	20x20x15	35
G112	4.400-5.500	25	0.40	1.15	-54 to +85	250	25	25x29x18	60
G165	4.400-5.500	20	0.30	1.20	-54 to +85	250	25	25x29x18	60
G113	4.400-6.500	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
H184	4.500-7.000	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
G172	4.600-4.800	25	0.30	1.12	-54 to +85	250	25	25x29x18	60
G179	4.700-9.400	14	0.95	1.50	-54 to +85	250	25	19x24x17	45
G156	4.855-5.355	26	0.30	1.10	0 to +55	250	25	32x34x19	100
G162	4.905-4.985	20	0.40	1.20	-54 to +85	250	25	13x16x13	20
G173	4.900-6.650	19	0.50	1.28	-54 to +85	250	25	13x16x13	20
G182	5.000-5.100	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
G126	5.000-5.600	23	0.40	1.15	-54 to +85	250	25	25x29x18	60
G114	5.000-6.000	23	0.40	1.15	-54 to +85	250	25	25x29x18	60
H176	5.000-7.000	23	0.40	1.15	-54 to +85	250	25	25x29x18	60
H107	5.000-7.000	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
H106	5.000-8.000	20	0.50	1.35	-54 to +85	250	25	25x29x18	60
H193	5.000-8.200	20	0.60	1.30	-54 to +85	250	25	25x29x18	60
I159	5.00-10.00	17	0.60	1.35	-54 to +85	250	25	19x24x17	45
G160	5.200-6.000	20	0.50	1.25	-54 to +85	250	25	19x24x17	45
H188	5.200-8.200	19	0.50	1.28	-54 to +85	250	25	25x29x18	60
G159	5.250-5.350	26	0.30	1.10	-54 to +85	250	25	25x29x18	60
G115	5.300-6.000	23	0.40	1.15	-54 to +85	250	25	25x29x18	60
H189	5.380-8.200	19	0.45	1.28	-54 to +85	250	25	25x29x18	60
G158	5.400-5.530	23	0.40	1.10	-54 to +85	250	25	25x29x18	60
G169	5.400-5.900	20	0.45	1.25	-54 to +85	250	25	25x29x18	60
G184	5.400-5.900	20	0.30	1.20	-54 to +85	250	25	19x24x17	45
H185	5.400-6.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H162	5.500-6.500	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
H164	5.500-6.500	18	0.65	1.35	-54 to +85	250	25	13x16x13	20
H172	5.500-6.500	25	0.30	1.15	-54 to +85	250	25	25x29x18	60
H175	5.500-6.500	30	0.30	1.15	-54 to +85	250	25	25x29x18	60
G161	5.600-6.200	23	0.40	1.15	-54 to +85	250	25	25x29x18	60
H169	5.600-6.200	19	0.55	1.27	-54 to +85	250	25	13x16x13	20
G181	5.600-6.500	23	0.40	1.15	-40 to +70	250	25	20x20x15	35
H192	5.700-5.900	22	0.30	1.15	-54 to +85	250	25	13x16x13	20
H108	5.700-6.800	20	0.40	1.25	-54 to +85	250	25	25x29x18	60
H183	5.775-6.175	23	0.40	1.15	-54 to +85	250	25	25x29x18	60
H127	5.800-6.400	19	0.55	1.27	0 to +55	250	25	13x16x13	20
H181	5.800-6.425	20	0.35	1.25	-54 to +85	250	25	19x24x17	45
H109	5.800-6.500	20	0.35	1.25	-54 to +85	250	25	19x24x17	45
H155	5.800-6.500	23	0.40	1.20	-54 to +85	250	25	25x29x18	60
H154	5.800-7.000	23	0.40	1.20	-54 to +85	250	25	25x29x18	60
H124	5.800-7.200	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H110	5.800-8.600	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H163	5.845-6.500	23	0.25	1.15	-54 to +85	250	25	25x29x18	60
H255	5.845-6.560	23	0.25	1.15	-54 to +85	250	25	25x29x18	60
G186	5.850-5.925	20	0.40	1.05	-54 to +85	250	25	19x24x17	45
G171	5.850-6.400	23	0.35	1.15	-54 to +85	250	25	25x29x18	60
H161	5.850-6.425	19	0.55	1.27	-54 to +85	250	25	13x16x13	20
H173	5.850-6.425	25	0.30	1.12	-54 to +85	250	25	25x29x18	60
H167	5.850-6.650	23	0.40	1.20	-54 to +85	250	25	25x29x18	60



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MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [ W x L x T ] mm.	WEIGHT Grams
						Peak	Average		
H170	5.850-6.650	23	0.30	1.15	-54 to +85	250	25	19x24x17	45
H165	5.850-7.100	23	0.40	1.22	-54 to +85	250	25	19x24x17	45
G185	5.900-6.100	25	0.35	1.15	-54 to +85	250	25	19x24x17	45
H122	5.900-6.400	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
G178	5.900-6.500	23	0.35	1.15	-40 to +70	250	25	20x20x15	35
H187	5.900-8.200	20	0.40	1.20	-54 to +85	250	25	19x24x17	45
H199	5.925-6.425	25	0.30	1.15	-54 to +85	250	25	25x29x18	60
H111	6.000-8.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H112	6.000-9.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
J180	6.000-12.00	17	0.70	1.40	-54 to +85	250	25	16x21x17	35
H119	6.400-7.200	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H1101	6.400-7.200	23	0.35	1.15	-40 to +70	250	25	20x20x15	35
I136	6.400-11.70	18	0.50	1.35	-54 to +85	250	25	16x21x17	35
J170	6.400-12.80	15	0.80	1.40	-54 to +85	250	25	16x21x17	35
H1106	6.425-6.570	23	0.40	1.05	-54 to +85	250	25	19x24x17	45
H120	6.435-6.475	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
J183	6.500-10.00	18	0.60	1.35	-54 to +85	250	25	16x21x17	35
H113	6.550-7.850	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H1105	6.570-6.870	23	0.40	1.05	-54 to +85	250	25	19x24x17	45
H177	6.600-7.100	23	0.35	1.20	-54 to +85	250	25	16x21x17	35
H179	6.600-7.900	21	0.40	1.20	-54 to +85	250	25	16x21x17	35
H178	6.700-6.900	25	0.35	1.12	-54 to +85	250	25	19x24x17	45
H180	6.700-7.000	25	0.40	1.15	-54 to +85	250	25	19x24x17	45
H1103	6.800-8.200	23	0.35	1.15	-54 to +85	250	25	19x24x17	45
H152	6.800-8.800	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H1107	6.870-7.125	23	0.40	1.05	-54 to +85	250	25	19x24x17	45
I106	7.000-11.00	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
J168	7.000-12.00	19	0.60	1.25	-54 to +85	250	25	16x21x17	35
J178	7.000-12.00	19	0.50	1.25	-54 to +85	250	25	19x22x13	26
H174	7.000-7.500	23	0.35	1.15	-54 to +85	250	25	19x24x17	45
H114	7.000-8.500	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H168	7.000-8.500	20	0.35	1.25	-54 to +85	250	25	19x24x17	45
I105	7.000-9.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
J193	7.000-13.00	16	0.80	1.45	-54 to +85	250	25	16x21x17	35
I141	7.050-10.00	20	0.40	1.20	-54 to +85	250	25	19x24x17	45
H142	7.100-7.700	25	0.25	1.15	-54 to +85	250	25	19x24x17	45
H115	7.100-7.800	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
I144	7.100-8.500	23	0.30	1.15	-40 to +70	250	25	20x20x15	35
H116	7.100-8.500	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H1100	7.100-7.900	23	0.30	1.15	-40 to +70	250	25	20x20x15	35
H186	7.145-7.235	22	0.25	1.20	-54 to +85	250	25	19x24x17	45
I147	7.200-8.400	20	0.40	1.15	-54 to +85	250	25	19x24x17	45
H118	7.250-7.750	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H182	7.250-8.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
H166	7.250-8.400	23	0.40	1.22	-54 to +85	250	25	19x24x17	45
I110	7.400-7.900	23	0.35	1.15	-54 to +85	250	25	16x21x17	35
H1108	7.425-7.750	23	0.40	1.05	-54 to +85	250	25	19x24x17	45
I133	7.425-10.68	19	0.60	1.25	-54 to +85	250	25	16x21x17	35
K197	7.500-18.00	15	1.00	1.60	-54 to +85	250	25	16x21x17	35
I137	7.500-8.300	23	0.35	1.15	-54 to +85	250	25	19x24x17	45
I107	7.500-9.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
I132	7.700-8.300	25	0.30	1.12	-54 to +85	250	25	19x24x17	45
H1102	7.700-8.500	23	0.35	1.15	-40 to +70	250	25	20x20x15	35
I154	7.800-11.700	18	0.50	1.25	-54 to +85	250	25	16x21x17	35
H1104	7.900-8.100	25	0.35	1.15	-54 to +85	250	25	19x24x17	45
I109	7.900-8.400	20	0.40	1.25	-54 to +85	250	25	19x24x17	45
I135	7.900-8.400	23	0.35	1.15	-54 to +85	250	25	16x21x17	35



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MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [ W x L x T ] mm.	WEIGHT Grams
						Peak	Average		
I139	7.900-8.400	22	0.25	1.20	-54 to +85	250	25	16x21x17	35
I152	7.900-10.200	20	0.50	1.25	-54 to +85	250	25	16x21x17	35
I108	8.000-11.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	35
J109	8.000-12.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	35
J110	8.000-12.40	20	0.50	1.25	-54 to +85	250	25	16x21x17	35
J111	8.000-16.00	17	0.70	1.35	-54 to +85	250	25	16x21x17	35
K105	8.000-18.00	15	0.90	1.50	-54 to +85	250	25	16x21x17	35
I142	8.000-8.500	25	0.30	1.12	-54 to +85	250	25	19x24x17	45
J173	8.200-12.40	20	0.50	1.25	-54 to +85	250	25	16x21x17	35
I122	8.300-8.900	23	0.35	1.15	-54 to +85	250	25	16x21x17	35
I113	8.400-10.00	23	0.50	1.15	-54 to +85	250	25	16x21x17	35
I112	8.400-9.700	23	0.50	1.15	-54 to +85	250	25	16x21x17	35
I123	8.450-8.505	30	0.30	1.10	-20 to +50	250	25	16x21x17	35
I130	8.500-10.50	20	0.40	1.15	-54 to +85	250	25	19x24x17	45
J182	8.500-11.00	23	0.30	1.15	-54 to +85	250	25	13x16x13	20
I148	8.800-9.000	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
I114	9.000-10.00	23	0.50	1.15	-54 to +85	250	25	16x21x17	35
J115	9.000-12.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	35
K106	9.000-17.00	18	0.70	1.30	-54 to +85	250	25	16x21x17	35
K107	9.000-18.00	17	0.80	1.35	-54 to +85	250	25	16x21x17	35
I134	9.100-9.300	25	0.35	1.12	-54 to +85	250	25	16x21x17	35
I131	9.100-9.500	25	0.40	1.15	-54 to +85	250	25	16x21x17	35
I150	9.100-9.500	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
I149	9.200-9.400	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
I115	9.200-10.20	23	0.50	1.15	-54 to +85	250	25	16x21x17	35
I146	9.300-10.30	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
I151	9.400-9.440	22.5	0.40	1.15	-54 to +85	250	25	13x16x13	20
I145	9.400 +/-50MHz	25	0.40	1.12	-54 to +85	250	25	16x21x17	35
I140	9.400-9.800	23	0.40	1.15	-54 to +85	250	25	16x21x17	35
I155	9.500-9.800	25	0.50	1.20	-54 to +85	250	25	13x16x13	20
J136	9.500-10.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
J116	9.500-12.40	23	0.50	1.20	-54 to +85	250	25	16x21x17	35
J117	9.600-10.20	23	0.50	1.20	-54 to +85	250	25	16x21x17	35
J137	9.600-10.20	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
J118	9.700-12.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	35
I156	9.900-10.20	25	0.50	1.20	-54 to +85	250	25	13x16x13	20
J191	9.900-12.20	23	0.40	1.20	-54 to +85	250	25	13x16x13	20
J144	10.00-11.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J171	10.00-11.30	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
J149	10.00-12.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J179	10.00-13.00	23	0.35	1.20	-54 to +85	250	25	13x16x13	20
J153	10.00-14.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J147	10.00-15.00	22	0.45	1.20	-54 to +85	250	25	13x16x13	20
J174	10.00-15.00	20	0.40	1.20	-54 to +85	250	25	13x16x13	20
K108	10.00-18.00	18	0.70	1.35	-54 to +85	250	25	16x21x17	35
J187	10.10-11.70	23	0.35	1.15	-40 to +70	250	25	20x20x15	35
J166	10.15-10.65	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J142	10.20-10.80	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
J152	10.20-12.40	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J159	10.20-12.70	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J141	10.20-12.75	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J189	10.25-10.45	25	0.35	1.05	-54 to +85	250	25	13x16x13	20
J135	10.50-11.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J163	10.50-15.40	20	0.50	1.22	-54 to +85	250	25	13x16x13	20
J161	10.525 +/- 50MHz	23	0.35	1.15	-54 to +85	250	25	10.1x13.8x9.8	12
J190	10.55-10.68	25	0.35	1.05	-54 to +85	250	25	13x16x13	20
J192	10.60-14.60	22	0.45	1.20	-54 to +85	250	25	13x16x13	20
J131	10.70-11.70	23	0.35	1.15	-54 to +85	250	25	13x16x13	20



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MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [ W x L x T ] mm.	WEIGHT Grams
						Peak	Average		
J186	10.70-11.70	23	0.30	1.15	-54 to +85	250	25	13x16x13	20
J167	10.70-12.70	30	0.40	1.15	-54 to +85	250	25	16x21x17	35
J169	10.70-15.40	20	0.45	1.20	-54 to +85	250	25	10.10x13.80x9.80	15
J160	10.80-12.90	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J175	10.80-12.90	23	0.35	1.15	-54 to +85	250	25	16x21x17	35
J139	10.95-12.75	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J188	11.00-15.00	22	0.45	1.20	-54 to +85	250	25	13x16x13	20
K110	11.00-18.00	18	0.70	1.35	-54 to +85	250	25	16x21x17	35
J140	11.70-12.30	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J132	11.70-12.70	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
K168	11.70-14.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
K149	12.00-14.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J162	12.00-16.00	20	0.40	1.15	-54 to +85	250	25	13x16x13	20
K1119	12.00-18.00	20	0.70	1.25	-54 to +85	250	25	16x21x17	35
K1118	12.00-20.00	16	0.80	1.40	-54 to +85	250	25	13x16x13	20
K1112	12.103+-10 MHz	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
J133	12.20-13.20	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
J143	12.25-12.65	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J172	12.25-12.75	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
K193	12.25-14.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
K152	12.40-15.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
K169	12.40-18.00	19	0.60	1.30	-54 to +85	250	25	13x16x13	20
K144	12.496-12.696	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
K131	12.50-13.50	23	0.50	1.15	-54 to +85	250	25	13x16x13	20
J134	12.60-13.20	25	0.50	1.15	-54 to +85	250	25	13x16x13	20
J154	12.60-13.30	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
J181	12.70-13.00	20	0.50	1.20	-54 to +85	250	25	16x21x22	26
K132	12.70-13.30	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
J185	12.70-13.30	23	0.30	1.15	-54 to +85	250	25	13x16x13	20
K1105	12.70-13.30	20	0.35	1.20	-54 to +85	250	25	13x16x13	20
K1116	12.70-15.00	20	0.50	1.20	-54 to +85	250	25	13x16x13	20
K199	12.70-15.40	23	0.40	1.15	-54 to +85	250	25	16x21x17	35
K186	12.70-15.50	20	0.50	1.29	-54 to +85	250	25	13x16x13	20
K1101	12.70-18.00	20	0.50	1.25	-54 to +85	250	25	13x16x13	20
K195	12.70-19.70	16	0.60	1.35	-54 to +85	250	25	16x21x17	35
K1123	12.75-14.50	23	0.40	1.20	-54 to +85	250	25	13x16x13	20
K112	12.75-18.40	20	0.50	1.25	-54 to +85	250	25	13x16x13	20
K136	12.80-13.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
K1122	13.00-14.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
K118	13.00-16.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	35
K1108	13.40-14.00	23	0.35	1.15	-54 to +85	250	25	16x21x17	35
K134	13.40-14.00	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
K142	13.40-14.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
K154	13.50-14.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
K1111	13.75-13.76	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
K135	14.00-14.50	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
K109	14.00-14.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
K171	14.00-16.00	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
K172	14.00-16.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
K133	14.10-15.30	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
K123	14.50-15.35	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
K1125	14.50-15.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
K1117	15.00-16.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	20
K173	15.00-18.00	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
K1130	15.00-21.00	14	1.00	1.50	-54 to +85	250	25	16x21x17	35
K1124	15.20-18.30	20	0.60	1.22	-54 to +85	250	25	13x16x13	20
K174	15.50-16.60	25	0.35	1.15	-54 to +85	250	25	13x16x13	20



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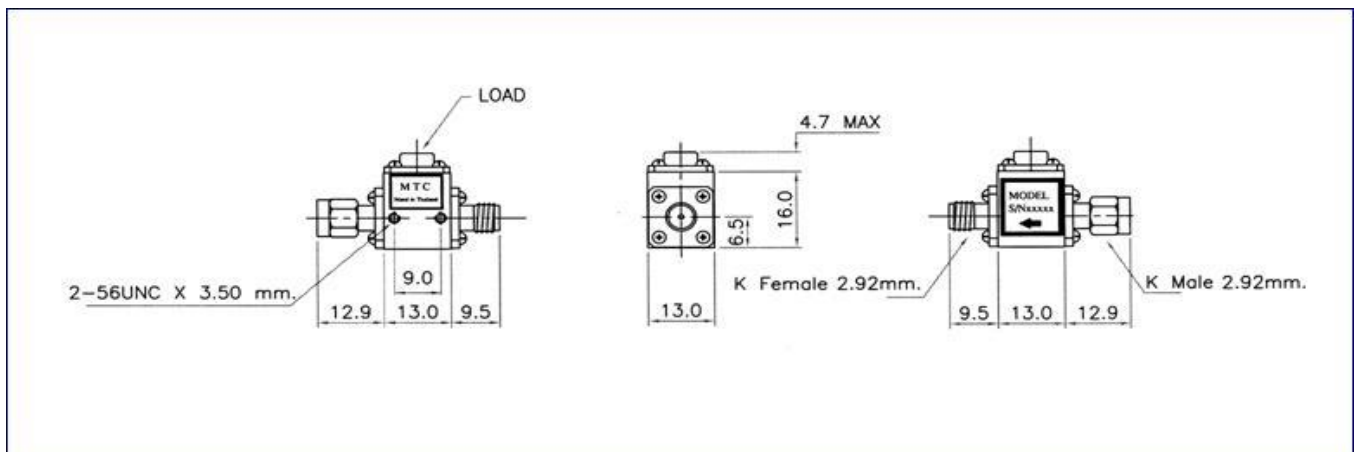
MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [ W x L x T ] mm.	WEIGHT Grams
						Peak	Average		
K187	15.70-18.40	20	0.50	1.25	-54 to +85	250	25	13x16x13	20
K190	15.90-16.50	20	0.30	1.50	-54 to +85	250	25	16x21x17	35
K175	16.00-18.00	25	0.40	1.15	-54 to +85	250	25	13x16x13	20
K198	16.00-19.00	20	0.55	1.25	-54 to +85	250	25	13x16x13	20
K139	16.70-17.30	25	0.35	1.15	-54 to +85	250	25	13x16x13	20
K1131	16.70-18.60	20	0.50	1.20	-54 to +85	250	25	13x16x13	20
K137	17.00-18.50	25	0.40	1.15	-54 to +85	250	25	13x16x13	20
K188	17.00-18.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
K1128	17.00-19.00	20	0.50	1.20	-54 to +85	250	25	13x16x13	20
K157	17.00-20.00	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
K1126	17.00-21.00	18	0.60	1.30	-54 to +85	250	25	13x16x13	20
K184	17.00-22.00	18	0.70	1.35	-54 to +85	250	25	13x16x13	20
K176	17.30-18.10	25	0.40	1.15	-54 to +85	250	25	13x16x13	20
K155	17.30-18.30	25	0.40	1.15	-54 to +85	250	25	13x16x13	20
K189	17.30-18.40	25	0.40	1.15	-54 to +85	250	25	13x16x13	20
K196	17.30-23.60	19	0.60	1.25	-54 to +85	250	25	13x16x13	20
K158	17.70-19.70	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
K159	17.70-20.20	23	0.40	1.15	-54 to +85	250	25	13x16x13	20
K1106	17.70-21.20	20	0.60	1.25	-54 to +85	250	25	13x16x13	20
K194	17.70-26.50	14	1.00	1.50	-54 to +85	250	25	13x16x13	20
K160	18.00-22.00	21	0.60	1.20	-54 to +85	250	25	13x16x13	20
K1109	18.00-26.00	14	1.00	1.50	-54 to +85	250	25	13x16x13	20
K119	18.40-18.70	24	0.35	1.20	-54 to +85	250	25	16x21x17	35
K180	18.90-22.05	23	0.50	1.20	-54 to +85	250	25	13x16x13	20
K161	19.00-21.00	23	0.50	1.15	-54 to +85	250	25	13x16x13	20
K162	19.00-22.00	21	0.60	1.20	-54 to +85	250	25	13x16x13	20
K192	19.00-23.00	20	0.70	1.25	-54 to +85	250	25	13x16x13	20
K1107	19.50-21.20	23	0.50	1.15	-54 to +85	250	25	13x16x13	20
K163	20.00-21.50	25	0.50	1.15	-54 to +85	250	25	13x16x13	20
K164	20.00-22.00	23	0.50	1.20	-54 to +85	250	25	13x16x13	20
K165	20.00-23.00	20	0.60	1.25	-54 to +85	250	25	13x16x13	20
K1114	20.00-24.00	17	0.80	1.35	-54 to +85	250	25	13x16x13	20
K191	20.20-21.20	23	0.50	1.20	-54 to +85	250	25	13x16x13	20
K1100	21.20-23.60	20	0.70	1.25	-54 to +85	250	25	13x16x13	20
K156	21.30-23.60	20	0.70	1.25	-54 to +85	250	25	13x16x13	20
K166	22.50-24.50	20	0.80	1.50	-54 to +85	250	25	13x16x13	20
K182	22.90-24.10	20	0.70	1.25	-54 to +85	250	25	13x16x13	20
K583	24.00-26.20	20	0.70	1.25	-54 to +85	250	25	13x16x13	20
K1121	24.50-26.50	19	0.70	1.27	-54 to +85	250	25	13x16x13	20
K1113	25.835 +/- 0.01	25	0.35	1.15	-54 to +85	250	25	13x16x13	20

**NOTE :**

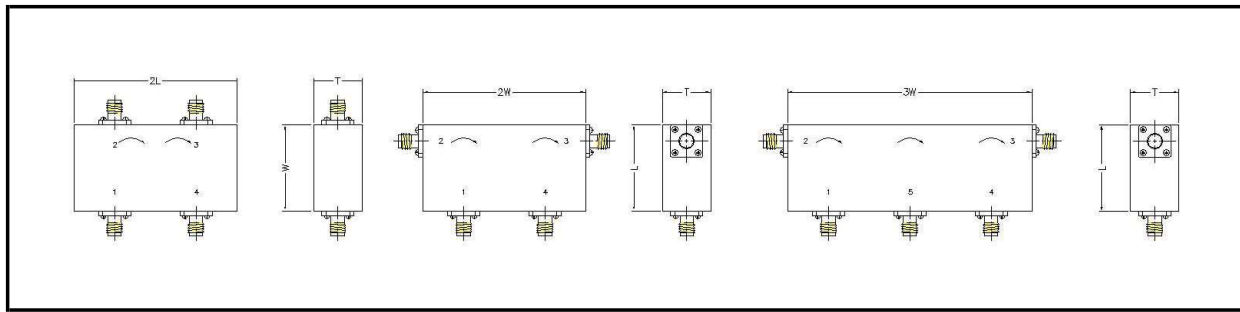
- Standard Connector SMA - Type
- Isolator Termination 1W
- Finished : Black Painted

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [ W x L x T ] mm.	WEIGHT Grams
						Peak	Average		
K5139	25.00-27.40	20	1.0	1.35	-10 to +60	30	5	13x16x13	20
K5150	25.50-27.50	20	1.0	1.25	-54 to +85	30	5	13x16x13	20
K5154	26.00-40.00	15	1.20	1.43	+10 to +40	30	5	13x16x13	20
K5156	26.50-40.00	14	1.0	1.50	0 to +50	30	5	13x16x13	20
K5141	27.00-31.50	17	1.30	1.30	-10 to +50	30	5	13x16x13	20
K5143	27.50-30.50	20	0.80	1.25	-20 to +70	30	5	13x16x13	20
K5157	29.00-32.00	20	1.10	1.35	-30 to +70	30	5	13x16x13	20
K5160	31.00-35.00	20	1.30	1.30	-30 to +70	30	5	13x16x13	20
K5168	37.00-38.00	20	1.0	1.50	-20 to +60	30	5	13x16x13	20
K5175	25.00-28.00	20	1.10	1.30	-10 to +60	30	5	13x16x13	20
K5176	30.00-33.00	20	1.10	1.30	-10 to +60	30	5	13x16x13	20
K5181	26.50-31.00	18	1.40	1.25	0 to +50	30	5	13x16x13	20
K5190	25.00-27.50	20	1.0	1.30	0 to +50	30	5	13x16x13	20
K5193	27.60-29.10	20	1.10	1.20	-20 to +70	30	5	13x16x13	20
K5200	34.76-36.76	20	0.70	1.25	-20 to +70	30	5	13x16x13	20
K5210	20.20-31.00	15	1.10	1.45	-10 to +60	30	5	13x16x13	20
K5212	26.20-27.00	20	0.80	1.25	0 to +60	30	5	13x16x13	20
K5220	27.50-28.50	20	1.0	1.25	-10 to +60	30	5	13x16x13	20
L503	26.50-32.00	20	1.20	1.25	-30 to +60	30	5	13x16x13	20
L507	27.50-30.50	20	0.80	1.22	-10 to +60	30	5	13x16x13	20

- \* CONNECTOR K 2.92mm.
- \* FINISH NICKLE PLATED



# MULTI-PORT ISOLATORS & CIRCULATORS

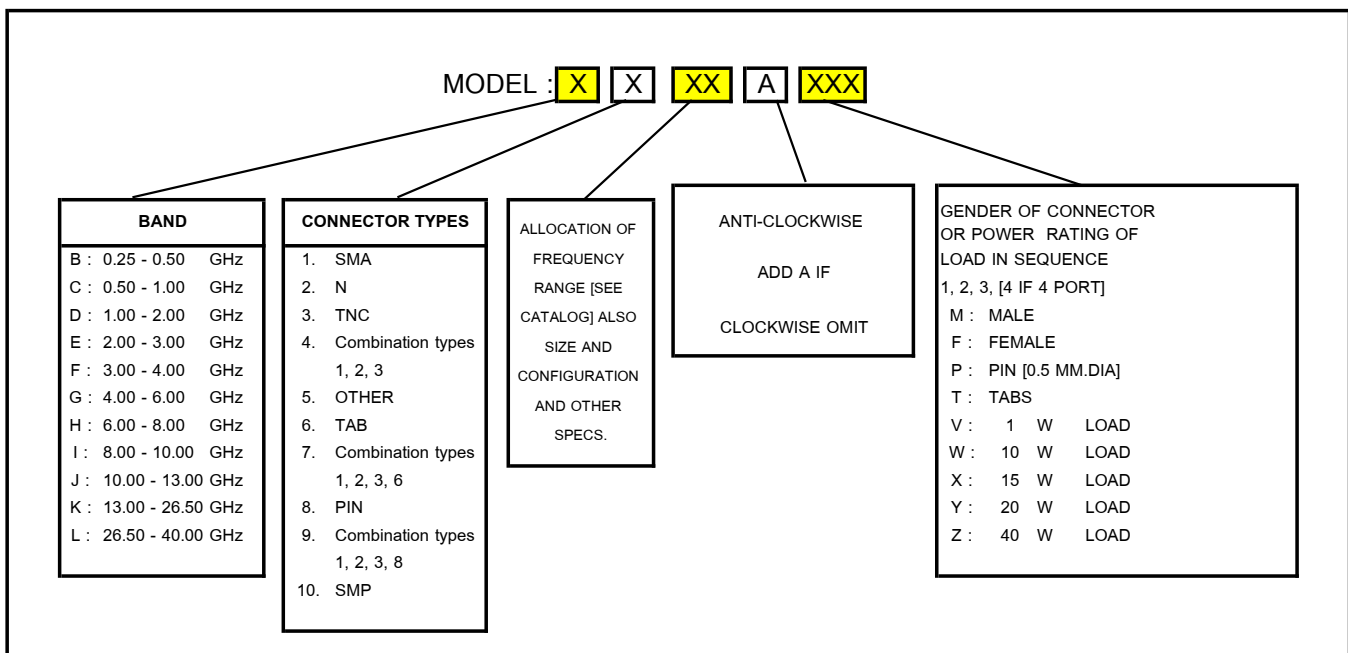


**4-PORT  
H-CONFIGURATION**

**4-PORT  
T-CONFIGURATION**

**5-PORT**

Multi-port Isolators & Circulators are available in all the frequency ranges. High isolation is obtained by combining 2 or more junctions into a single package. Load termination can be substituted for any of the connectors in the above drawings.



Other load values are as specified in the catalog above.

For load values that are not defined in the catalog, we will designate them using "L" followed by the load value.

Examples:

5 W → L5

3 W → L3

## GENERAL INFORMATION

### SPECIAL ORDERS

Enquires are invited for other frequency range not listed or for more stringent thermal, shock and vibration conditions.

Full magnetic shielding and EMI shielding are available on special order.

Phase matched units are available

### WARRANTY

MTC Ferrite Product are warranted to be free of defects in workmanship and material and to comply with applicable operating specifications for a period of one year from date of shipment

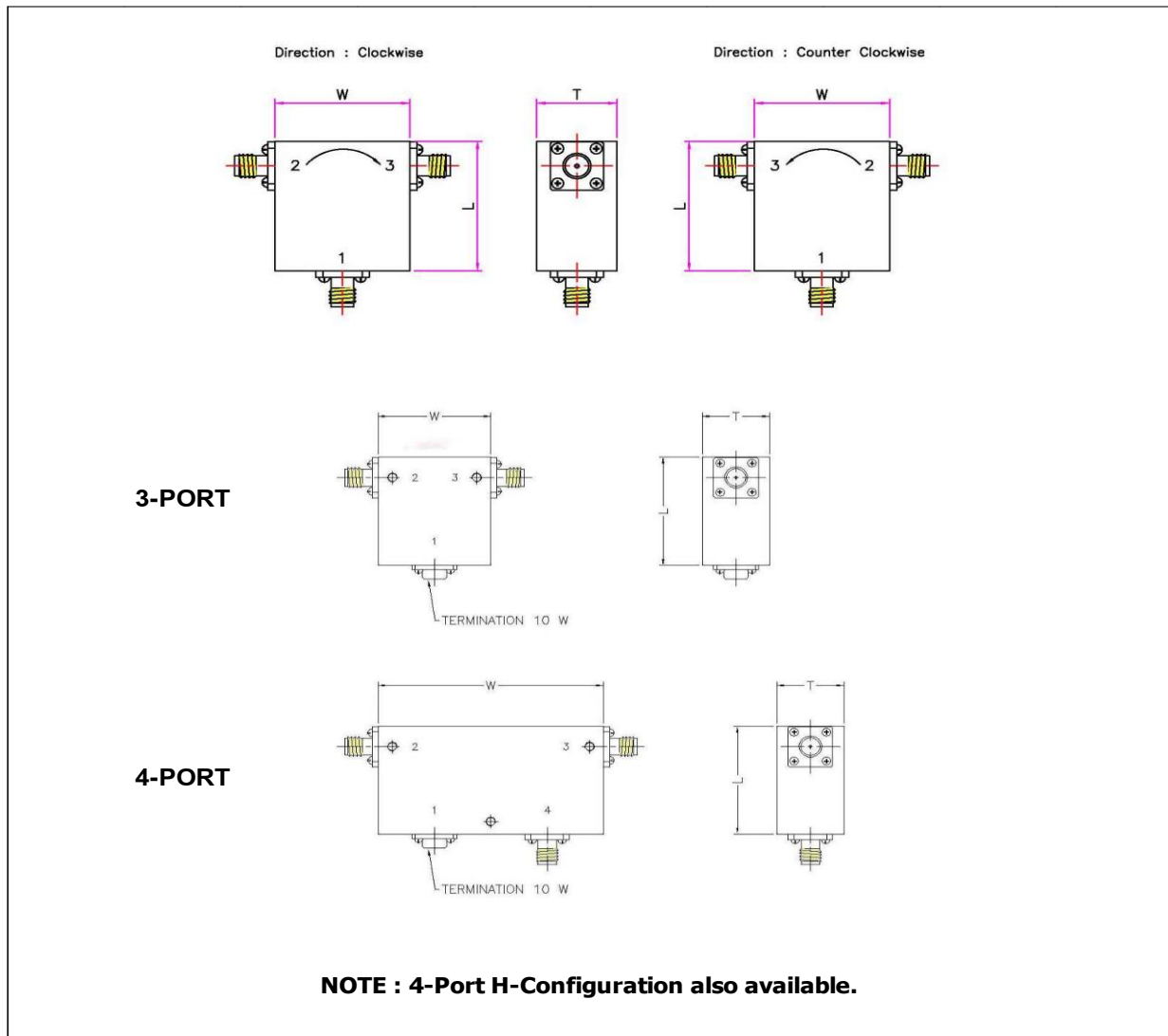
# CELLULAR RADIO

## 3 & 4 PORT ISOLATORS

Microwave Technology Corporation has developed a range of devices designed for CELLULAR BASE STATION Cellular Mobile Communication PNC / PCS, VSAT and paging at 400 MHz, 800 MHz, 900 MHz and at 1800 MHz.

For variations of frequency range or other specifications please contact our office.

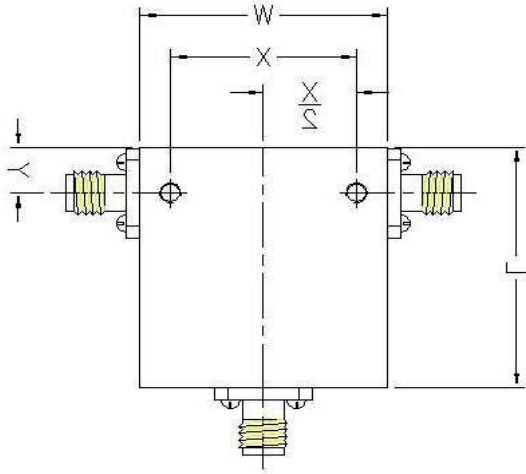
### ISOLATOR OUTLINE DRAWING



- \* N (F) Connectors are standard for cellular applications.
- \* SMA (F) Connectors are standard for PCN applications.
- \* Different types of connectors can be interchanged including PINS, TABS and Sockets.
- \* Extra ports as test port or sniffer port to monitor input power or reflected power can be included.
- \* Integral loads up to 100 Watts are available.

# MOUNTING HOLES

## FOR STANDARD ISOLATORS & CIRCULATORS



W mm.	X mm.	Y mm.	Screw mm.
70	50	10	3
54	40	10	3
52	40	26*	3
48	40	13	3
41	25	6.5	3
35	27	9.7	3
32	24	6.5	3
25	19	6.5	2
21 ⊥	-	6.5	-
20 ⊥	-	6.5	-
19	11	6.5	2
16	10	6.5	2
13 ⊥	-	-	-

ALL THREAD DEPTHS ARE 4 MM. MINIMUM [ EXCEPT W = 52 MM., L = 25 MM. ]

- \* Mounting holes are not in line with connectors
- ⊥ Standard units are not supplied with mounting holes

NOTE : Different mounting options are available such as

- Through holes
- Tapped holes on side faces
- Tapped holes on top bottom face



# Microwave Technology Corporation

## DROP IN ISOLATORS & CIRCULATORS

MTC offer a wide range of narrow and wide bandwidth RF and microwave isolators and circulators product in Coaxial and Drop-in configurations that extend from 200 MHz to 40 GHz frequency range. Customer can select from the products listed below or to send us your requirements so we can meet your needs better.

- Standard Isolator 1 Watt , Forward power 25 to 500 Watts and Reverse power 5 to 100 watts available
- Neodymium ( NdFe B ) free
- In - house customer design engineering
- Custom Surface Mount , Flange Mount packaging available
- Contact factory for custom requirement

Model No.		Frequency (GHz)	Isolation dB(Min)	Insertion Loss dB(Max)	VSWR (Max)	Operating Temp. deg. C	Circulators Power(Watts)		Dimension (WxLxT)mm.	Weight Grams	Drawing CIR& ISO
Isolators	Circulators						Peak	Average			
CA01H	CA01C	0.790-0.860	18	0.5	1.3	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
CA02H	CA02C	0.860-0.960	20	0.5	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
CA03H	CA03C	0.869-0.894	23	0.3	1.15	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
CA04H	CA04C	0.890-0.960	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
CA05H	CA05C	0.935-0.960	23	0.3	1.15	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA01H	DA01C	0.960-1.215	17	0.6	1.35	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA02H	DA02C	1.200-1.400	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA03H	DA03C	1.400-1.600	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA04H	DA04C	1.500-1.700	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA05H	DA05C	1.600-1.660	23	0.3	1.15	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA06H	DA06C	1.700-1.900	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA07H	DA07C	1.805-1.880	23	0.3	1.15	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
DA08H	DA08C	1.850-1.990	20	0.4	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA01H	EA01C	1.950-2.200	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA02H	EA02C	2.000-2.300	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA03H	EA03C	2.100-2.400	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA04H	EA04C	2.300-2.700	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA05H	EA05C	2.700-3.100	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
FA01H	FA01C	3.000-3.500	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
FA02H	FA02C	3.600-4.200	20	0.5	1.25	-40 to +85	200	25	19.05x19.05x6.35	15	EC&EI
GA01H	GA01C	4.400-5.000	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
GA02H	GA02C	5.000-6.000	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
GA03H	GA03C	5.400-5.900	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
HA01H	HA01C	5.800-6.500	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
HA02H	HA02C	6.400-7.200	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
HA03H	HA03C	7.200-8.400	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
IA01H	IA01C	9.000-10.000	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
JA01H	JA01C	10.700-11.700	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
JA02H	JA02C	11.700-12.700	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
KA01H	KA01C	14.000-14.500	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
KA02H	KA02C	14.500-15.500	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
KA03H	KA03C	17.700-19.700	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI



**ISOLATORS**



**CIRCULATORS**

Other load values are as specified in the catalog below.

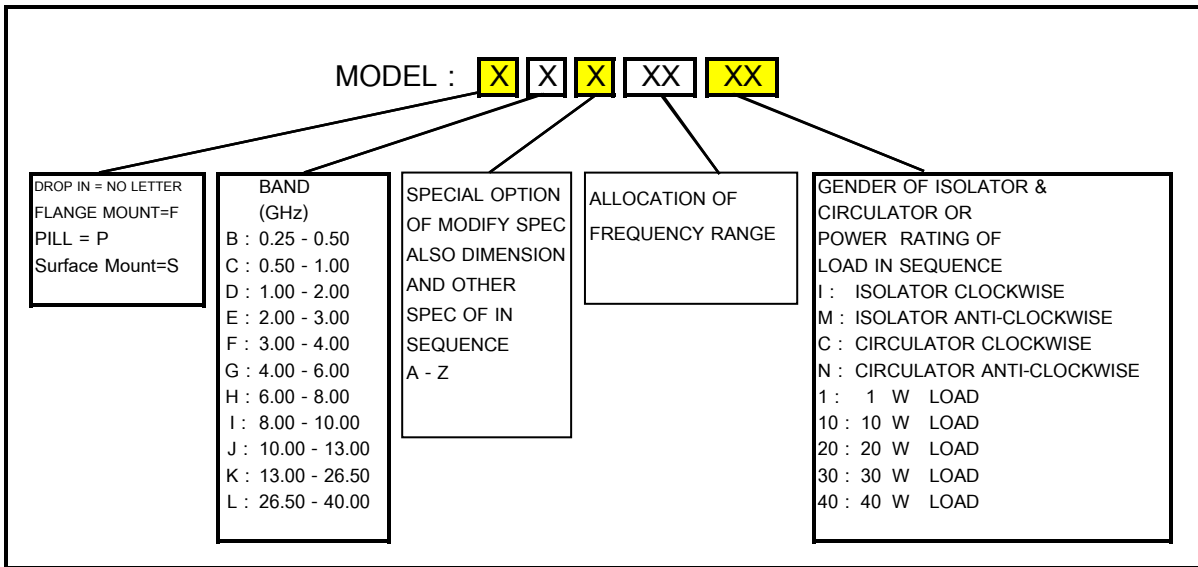
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Examples:

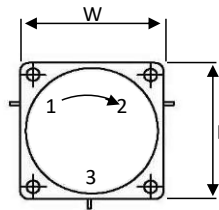
5 W → I5

3 W → I3

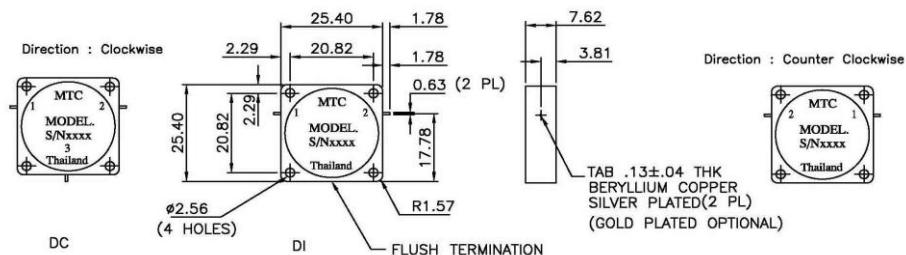
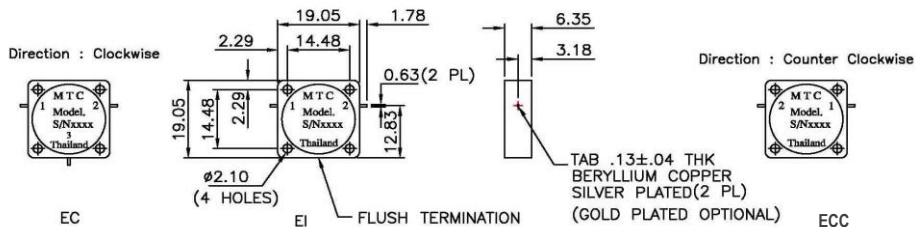
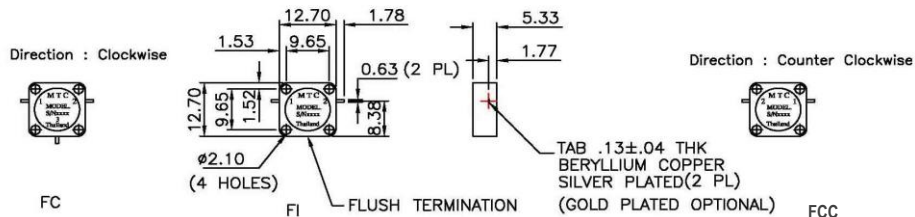
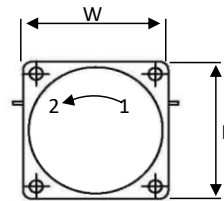
## OUTLINE DRAWING DROP-IN



Direction : Clockwise



Direction : Counter Clockwise



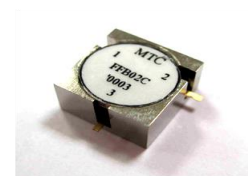
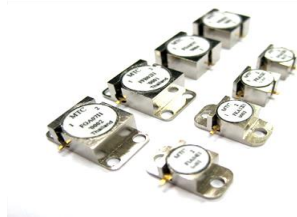
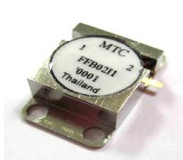
# Microwave Technology Corporation

## DROP IN FLANGE MOUNT ISOLATORS & SURFACE MOUNT CIRCULATORS

MTC offer a wide range of narrow and wide bandwidth RF and microwave isolators and circulators product in Coaxial and Drop-in configurations that extend from 200 MHz to 40 GHz frequency range. Customer can select from

- Standard Isolator 1 Watt , Forward power 25 to 500 Watts and Reverse power 5 to 100 watts available
- Neodymium ( NdFe B ) free
- In - house customer design engineering
- Custom Surface Mount , Flange Mount packaging available
- Contact factory for custom requirement

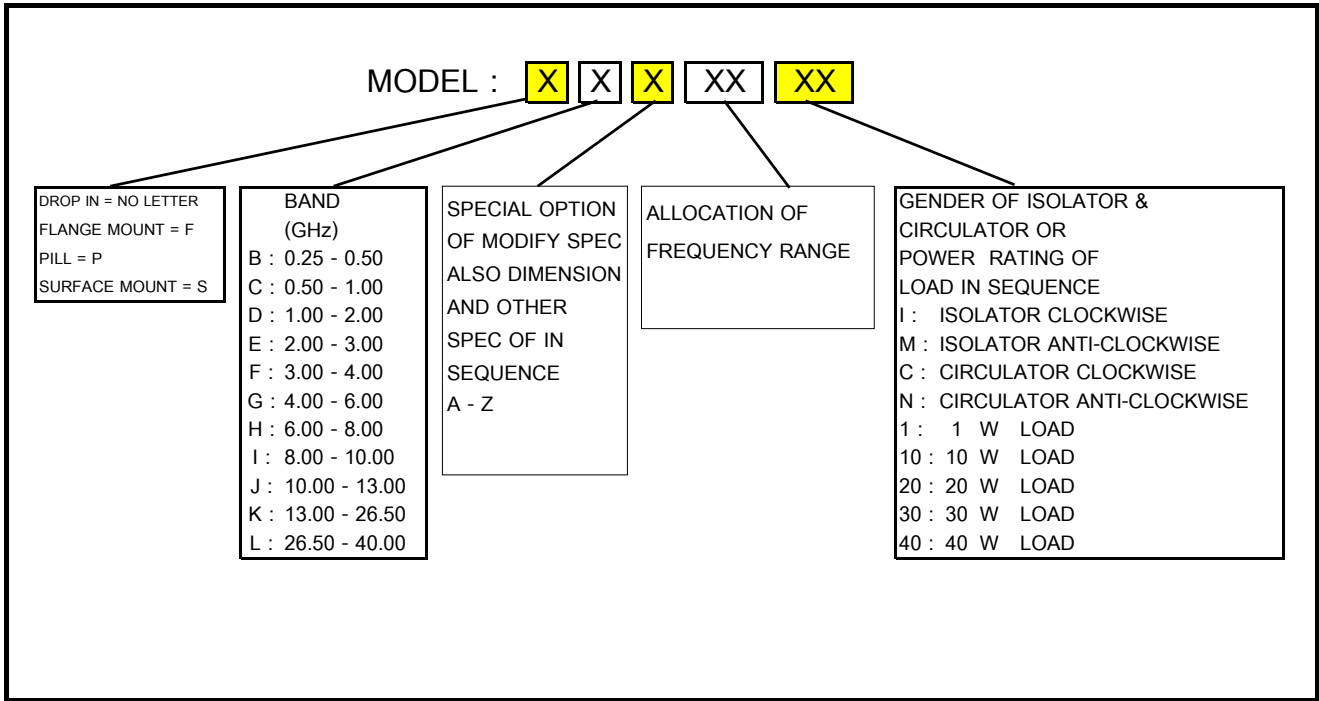
Model No.		Frequency range	SOLATION	Insertion loss	VSWR	Operating Temp.	Power Fwd / Rev ( Watt )		Dimension		Weight
Isolator	Circulator	( GHz )	dB(Min)	dB(Max)	Max	deg C.	Fwd	Rev CIR / ISO	Isolators (mm.)	Circulators (mm.)	(grams)
FFB021I	FFB02C	3.600-4.200	18	0.50	1.25:1	-40 to +85	20	20 / 1	9.52x15.74x5.33	9.60x9.60x5.33	3
FGA071I	FGA07C	4.200-4.400	20	0.50	1.25:1	-40 to +85	20	20 / 1	9.52x15.74x5.33	9.60x9.60x5.33	3
FGB011I	FGB01C	4.400-5.000	20	0.50	1.25:1	-40 to +85	20	20 / 1	9.52x15.74x5.33	9.60x9.60x5.33	3
FGA081I	FGA08C	4.700-5.300	20	0.50	1.25:1	-40 to +85	20	20 / 1	9.52x15.74x5.33	9.60x9.60x5.33	3
FGB031I	FGB03C	5.400-5.900	20	0.50	1.25:1	-40 to +85	20	20 / 1	9.52x15.74x5.33	9.60x9.60x5.33	3
FHB011I	FHB01C	5.800-6.500	20	0.50	1.25:1	-40 to +85	20	20 / 1	9.52x15.74x5.33	9.60x9.60x5.33	3
FHA061I	FHA06C	6.400-7.100	20	0.50	1.25:1	-40 to +85	20	20 / 1	9.52x15.74x5.33	9.60x9.60x5.33	3
FHA071I	FHA07C	7.100-7.800	20	0.50	1.25:1	-40 to +85	20	20 / 1	9.52x15.74x5.33	9.60x9.60x5.33	3
FIA031I	FIA03C	7.800-8.500	20	0.50	1.25:1	-40 to +85	20	20 / 1	9.52x15.74x5.33	9.60x9.60x5.33	3
FIA041I	FIA04C	9.200-9.700	20	0.50	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FIA051I	FIA05C	9.50-10.50	20	0.50	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FJA041I	FJA04C	10.00-11.00	20	0.50	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FJA051I	FJA05C	11.70-12.30	20	0.50	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FJA061I	FJA06C	12.20-12.75	20	0.50	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FJA071I	FJA07C	12.75-13.25	20	0.50	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FKA081I	FKA08C	13.00-13.60	20	0.50	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FKB011I	FKB01C	14.00-14.50	20	0.50	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FKA091I	FKA09C	15.00-18.00	20	0.60	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FKB031I	FKB03C	17.700-19.700	18	0.70	1.30:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FKA101I	FKA10C	18.400-19.000	20	0.60	1.25:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FKA111I	FKA11C	18.000-21.000	18	0.70	1.30:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5
FKA121I	FKA12C	21.200-23.600	18	0.70	1.30:1	-40 to +85	10	10 / 1	6.35x12.70x4.57	6.35x6.35x4.57	1.5



**ISOLATORS**

**CIRCULATORS**

# OUTLINE DRAWING FLANGE MOUNT



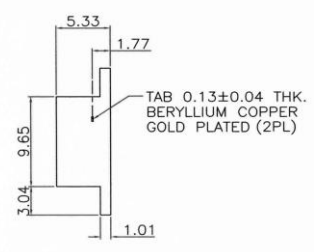
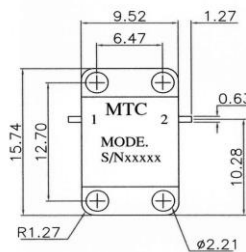
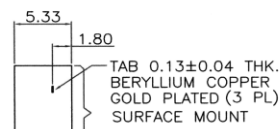
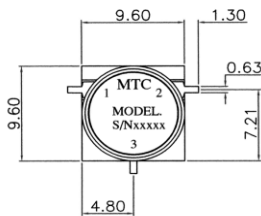
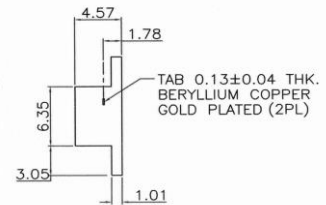
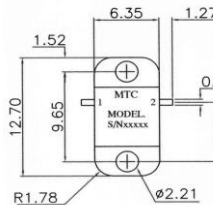
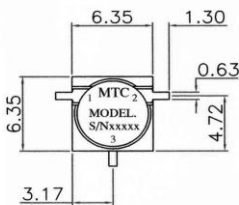
Other load values are as specified in the catalog above.

For load values that are not defined in the catalog, we will designate them using "I" followed by the load value.

Examples:

5 W → I5

3 W → I3



# Microwave Technology Corporation

## WAVEGUIDE ISOLATORS / CIRCULATORS

MTC manufactures a selection of W/G Isolators/Circulators are designed for wide range of high performance application at a low cost. These devices operate at frequencies from 7 to 18 GHz ( WR62 to WR112 ).

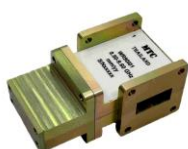
For more information feel free to contact us and discuss your needs with one of our design engineers.

### - WAVEGUIDE CIRCULATORS

Model No.	Frequency range ( GHz )	Isolation dB (Max)	Insertion Loss dB (Max)	VSWR Max	Operating Temp. deg C.	Power (Watts)		Dimintions (mm)			WAVEGUIDE TYPE	Mating Flange
						Avg	Peak	W	L	H		
WR112C01	7.10-7.80	23	0.2	1.15	-30 to+70	200	500	60	65	47.75	WR112	UG138/U,UBR 84
WR112C02	7.80-8.50	23	0.2	1.15	-30 to+70	200	500	60	65	47.75	WR112	UG138/U,UBR 84
WR90C01	8.50-9.60	22	0.2	1.2	-30 to+70	200	500	50	55	41.4	WR90	UG135/U,UBR-100
WR90C02	9.00-10.00	22	0.2	1.18	-30 to+70	200	500	50	55	41.4	WR90	UG135/U,UBR-100
WR90C03	10.00-11.00	22	0.2	1.18	-30 to+70	200	500	50	55	41.4	WR90	UG135/U,UBR-100
WR90C04	10.70-11.70	22	0.2	1.18	-30 to+70	200	500	50	55	41.4	WR90	UG135/U,UBR-100
WR75C01	10.70-11.70	21	0.25	1.2	-30 to+70	100	500	38.1	44.5	38.1	WR75	WR75,UBR-120
WR75C02	11.50-12.60	21	0.25	1.2	-30 to+70	100	500	38.1	44.5	38.1	WR75	WR75,UBR-120
WR75C03	12.75-13.50	21	0.25	1.2	-30 to+70	100	500	38.1	44.5	38.1	WR75	WR75,UBR-120
WR75C04	13.00-14.50	21	0.25	1.2	-30 to+70	100	500	38.1	44.5	38.1	WR75	WR75,UBR-120
WR62C01	13.50-14.50	21	0.3	1.2	-30 to+70	100	250	38.1	38.1	33.3	WR62	UG1665,UBR-140
WR62C02	14.00-15.30	21	0.3	1.2	-30 to+70	100	250	38.1	38.1	33.3	WR62	UG1665,UBR-140
WR62C03	14.00-16.00	20	0.3	1.25	-30 to+70	100	250	38.1	38.1	33.3	WR62	UG1665,UBR-140
WR62C04	16.00-17.00	21	0.3	1.2	-30 to+70	100	250	38.1	38.1	33.3	WR62	UG1665,UBR-140

### - WAVEGUIDE ISOLATORS

Model No.	Frequency range ( GHz )	Isolation dB (Max)	Insertion Loss dB (Max)	VSWR Max	Operating Temp. deg C.	Power (Watts)		Dimintions (mm)			WAVEGUIDE TYPE	Mating Flange
						Avg	Peak	W	L	H		
WR112I01	7.10-7.80	23	0.2	1.15	-30 to+70	10	500	60	65	47.75	WR112	UG138/U,UBR 84
WR112I02	7.80-8.50	23	0.2	1.15	-30 to+70	10	500	60	65	47.75	WR112	UG138/U,UBR 84
WR90I01	8.50-9.60	22	0.2	1.2	-30 to+70	5	500	50	55	41.4	WR90	UG135/U,UBR-100
WR90I02	9.00-10.00	22	0.2	1.18	-30 to+70	5	500	50	55	41.4	WR90	UG135/U,UBR-100
WR90I03	10.00-11.00	22	0.2	1.18	-30 to+70	5	500	50	55	41.4	WR90	UG135/U,UBR-100
WR90I04	10.70-11.70	22	0.2	1.18	-30 to+70	5	500	50	55	41.4	WR90	UG135/U,UBR-100
WR75I01	10.70-11.70	21	0.25	1.2	-30 to+70	3	500	38.1	44.45	38.1	WR75	WR75,UBR-120
WR75I02	11.50-12.60	21	0.25	1.2	-30 to+70	3	500	38.1	44.45	38.1	WR75	WR75,UBR-120
WR75I03	12.75-13.50	21	0.25	1.2	-30 to+70	3	500	38.1	44.45	38.1	WR75	WR75,UBR-120
WR75I04	13.00-14.50	21	0.25	1.2	-30 to+70	3	500	38.1	44.45	38.1	WR75	WR75,UBR-120
WR62I01	13.50-14.50	21	0.3	1.2	-30 to+70	3	250	38.1	38.1	33.3	WR62	UG1665,UBR-140
WR62I02	14.00-15.30	21	0.3	1.2	-30 to+70	3	250	38.1	38.1	33.3	WR62	UG1665,UBR-140
WR62I03	14.00-16.00	20	0.3	1.25	-30 to+70	3	250	38.1	38.1	33.3	WR62	UG1665,UBR-140
WR62I04	16.00-17.00	21	0.3	1.2	-30 to+70	3	250	38.1	38.1	33.3	WR62	UG1665,UBR-140



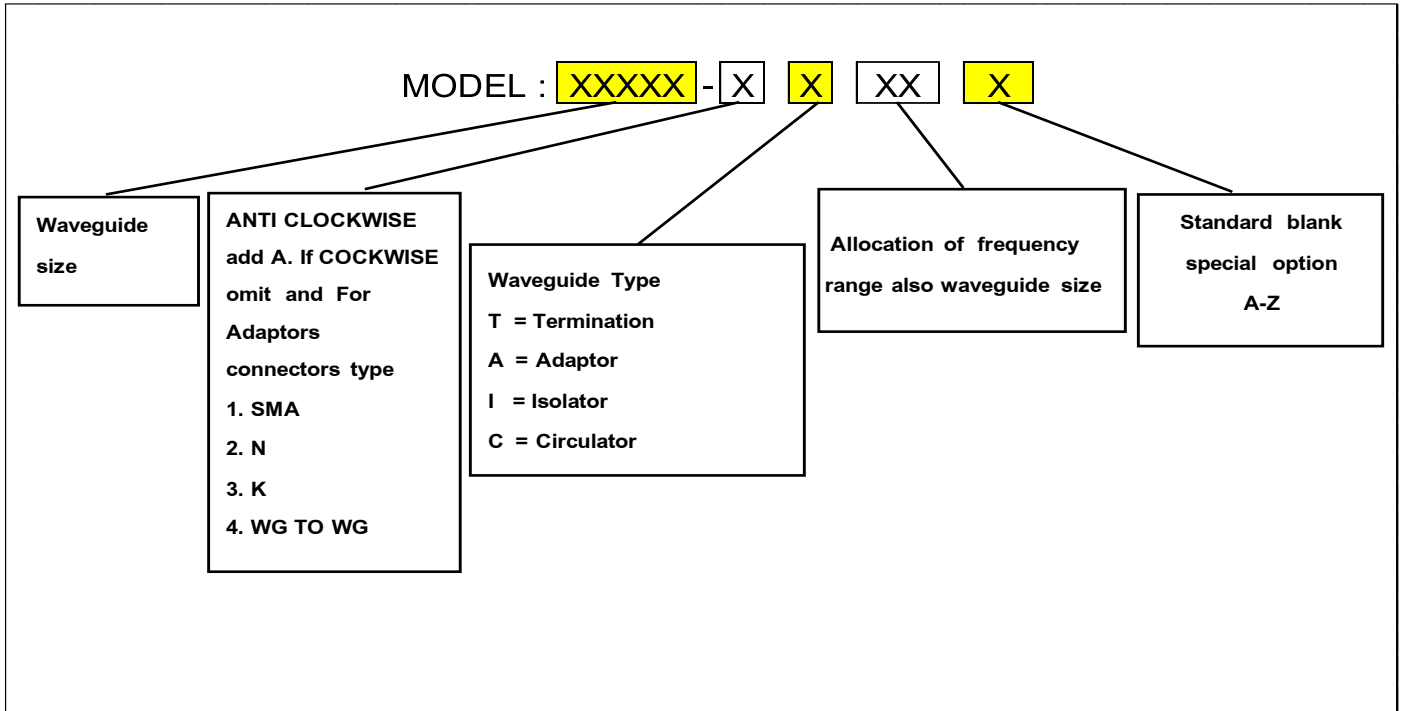
#### ISOLATORS

129/1 Moo 3 Tambol Wang-Chula, Amphur Wang-Noi, Ayutthaya 13170 THAILAND

#### CIRCULATORS

Tel: (6681) 573 - 3830 E-mail: thanakornc@microwave.co.th <http://www.microwave.co.th>

# SAMPLE MODEL OF WAVEGUIDE



## Standard

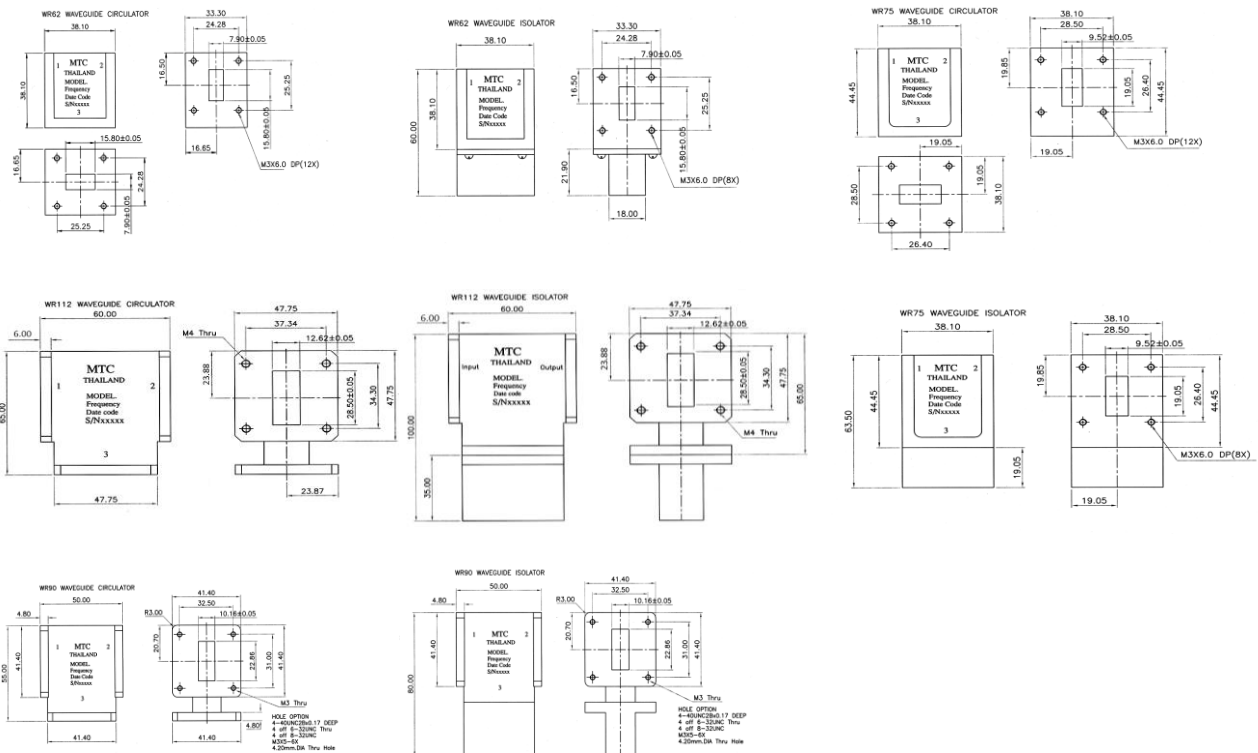
- Flange Type: Cover



Standard: Cover Flange

- Material: Aluminium

- Finish: Yellow Chromate

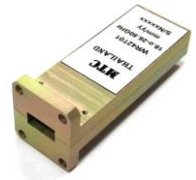


# WAVEGUIDE TERMINATIONS & ADAPTORS

## WAVEGUIDE LOW POWER TERMINATIONS

### FEATURES :

- Full Waveguide Frequency Range



Model No.	Frequency range ( GHz )	Waveguide Size	VSWR ( Max )	Insertion loss ( dB max )	Length inches
WR159-1A01	4.900-7.050	WR159	1.25	0.18	2.00
WR137-1A01	5.850-8.200	WR137	1.25	0.20	1.75
WR112-1A01	7.05-10.00	WR112	1.25	0.21	1.75
WR90-1A01	8.20-12.40	WR90	1.25	0.23	1.25
WR75-1A01	10.00-15.00	WR75	1.25	0.25	1.25
WR62-1A01	12.40-18.00	WR62	1.25	0.27	1.25
WR42-1A01	18.00-26.50	WR42	1.25	0.32	1.25
WR28-1A01	26.50-40.00	WR28	1.25	0.39	1.25

## WAVEGUIDE TO SMA COAXIAL ADAPTORS

Waveguide to SMA coaxial adaptors offer enhanced VSWR performance over the full waveguide frequency band. The adaptors are fitted with SMA Female connectors as standards.

However, models are optionally available with male connectors.

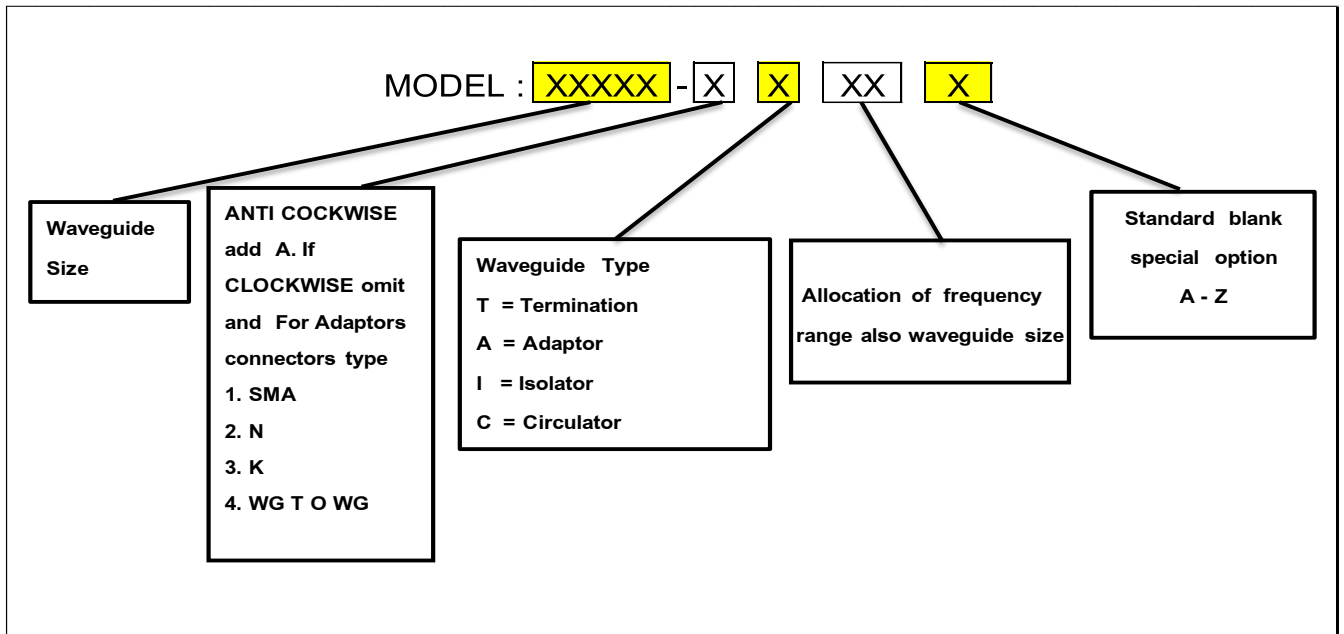
For further details please feel free to contact our sales office.



Narrowband models covering typical 20% of the full waveguide band with a VSWR of 1.10 are also available.

Model No.	Frequency range ( GHz )	Waveguide Size	VSWR ( Max )	Insertion loss ( dB max )	Length inches
WR159T01	4.900-7.050	WR159	1.10	7	6.00
WR137T01	5.850-8.200	WR137	1.10	6	5.50
WR112T01	7.05-10.00	WR112	1.10	4	5.00
WR90T01	8.20-12.40	WR90	1.10	4	4.00
WR90T02	8.20-12.40	WR90	1.20	-	1.00
WR75T01	10.00-15.00	WR75	1.10	2	4.00
WR62T01	12.40-18.00	WR62	1.10	1.5	4.00
WR62T18	12.40-18.00	WR62	1.20	-	1.00
WR42T01	18.00-26.50	WR42	1.10	1.5	2.50
WR42T15	18.00-26.50	WR42	1.05	-	2.78
WR28T01	26.50-40.00	WR28	1.10	1.5	2.00
WR28T33	26.50-40.00	WR28	1.05	-	2.40

# SAMPLE MODEL OF WAVEGUIDE



## Standard

- Flange Type: Cover

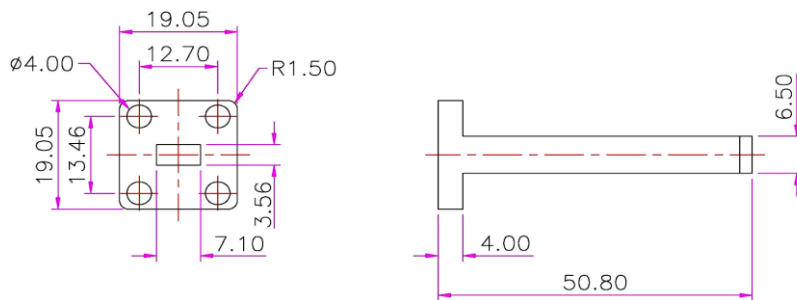


Standard: Cover Flange

- Material: Aluminium

- Finish: Yellow Chromate

### WAVEGUIDE LOW POWER TERMINATIONS



### Waveguide to SMA Coaxial Adaptors

