

# CRYSTAL FILTERS

## LINEAR PHASE FILTERS

Linear phase crystal filters are designed for Bessel or Gaussian pulse signal transmission with consideration to the linearity of phase characteristics.

### ■ Features

- Maximum flat group delay
- Low insertion loss
- Compactness and light weight
- Stable temperature characteristics

### ■ Attention on use

- Cannot be washed except for D types.

### ■ Linear Phase Filters

Model	Nominal Frequency (MHz)	Pole	Pass Bandwidth		Attenuation band width				Group Delay Variation		Ripple (dB)	Insertion Loss (dB)	Terminating Impedance ( $\Omega$ // pF)	Operating Temp. Range (°C)	Type
			(dB)	(kHz)	(dB)	(kHz)	(dB)	(kHz)	(kHz)	( $\mu$ s)					
YF10.7-4	10.7	6	3	$\pm 3.6$	60	$\pm 20$	—	—	$\pm 4$	10	1	4	50//0	-10~+50	D-109
YF10.7-6	10.7	6	3	$\pm 5.4$	60	$\pm 30$	—	—	$\pm 6$	10	1	4	50//0	-10~+50	D-109
YF10.7-8	10.7	6	3	$\pm 7.2$	60	$\pm 40$	—	—	$\pm 8$	6	1	4	50//0	-10~+50	D-109
YF10.7-12	10.7	6	3	$\pm 10.8$	60	$\pm 65$	—	—	$\pm 12$	5	1	4	50//0	-10~+50	D-109
YF10.7-16	10.7	5	3	$\pm 14.4$	40	$+110$ $-80$	—	—	$\pm 16$	5	1	6	50//0	-10~+50	D-109
YF10.7-20	10.7	5	3	$\pm 18$	40	$+130$ $-100$	—	—	$\pm 20$	4	1	6	50//0	-10~+50	D-109
YF10.7-48	10.7	7	3	$\pm 86.4$	60	$\pm 360$	—	—	$\pm 48$	3	2	6	50//0	-10~+50	D-109
21M15BP	21.4	4	3	$\pm 7.5$	30	$\pm 32$	50	$\pm 60$	$\pm 7.5$	8	1	2	IN 3.9k// $-3$	-20~+70	D-161-D
21M20BP	21.4	4	3	$\pm 10$	35	$\pm 65$	—	—	$\pm 10$	5	1	2	OUT 5.5k// $-3$	-20~+70	D-161-D

