

MONOLITHIC CRYSTAL FILTER UNIT (MCF) IN CERAMIC SEAM SEAL SMD PACKAGE, SIZE 7.0 X 5.0MM.

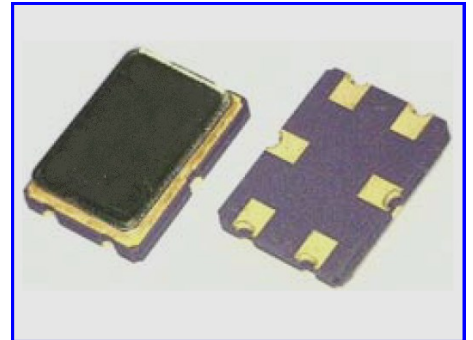
SCF7M

PRODUCT FEATURES

- SMALL SMD PACKAGE SIZE 7.0 X 5.0 X 1.3MM WITH 6 PADS.
- EXCELLENT HEAT AND SHOCK RESISTANCE.
- HIGHLY RELIABLE SEAM SEAL PACKAGE WITH LOW AGING.

APPLICATIONS

- RADIO COMMUNICATION
- CELLULAR
- CORDLESS PHONES
- PORTABLE DEVICES.



PRODUCT SPECIFICATIONS

PARAMETER	SYMBOL	SPECIFICATIONS	REMARKS
FREQUENCY RANGE	F_N	20 ~ 50.0MHZ	SEE NOTE BELOW TABLE
CRYSTAL CUT	—	AT-CUT	—
OPERATION MODE	—	FUNDAMENTAL	—
NUMBER OF POLES	—	4-POLE	—
BANDWIDTH (PASSBAND)	BW_{PASS}	$\pm 3.75\text{kHz}$ / $\pm 7.5\text{kHz}$ / $\pm 15\text{kHz}$	TYPICAL AT -3dB, OTHERS PLEASE REQUEST
INSERTION LOSS	IL	-3dB	TYPICAL, OTHERS PLEASE REQUEST
PASSBAND RIPPLE	δ	$\leq 1\text{dB}$	TYPICAL, DEPENDS ON FREQ. AND DESIGN
STOP BANDWIDTH (RANGE)	BW_{STOP}	18kHz TO 60kHz	DEPENDING ON FREQUENCY AND DESIGN
GUARANTIED ATTENUATION	a	50dB TO 80dB	@190kHz, DESIGN DEPENDENT
INSULATION RESISTANCE	IR	>500M Ω	@100 $\pm 15V_{DC}$
OPERATING TEMPERATURE RANGE	T_{OP}	-20 $^{\circ}\text{C}$ ~ +70 $^{\circ}\text{C}$	OTHER OPTIONS PLEASE REQUEST

TYPICAL FREQUENCIES: 21.4MHZ, 21.7MHZ, 24.555MHZ, 38.85MHZ, 45.0MHZ, 45.1MHZ, 47.25MHZ

MECHANICAL DIMENSIONS

PAD	FUNCTION
1	GROUND GND *
2	COUPLING CAPACITOR C_c **
3	FILTER INPUT / OUTPUT
4	GROUND GND *
5	COUPLING CAPACITOR C_c **
6	FILTER INPUT / OUTPUT

* The metal lid is connected to ground.
 ** Coupling Capacitor for 4 pole filters only.
 for 2-pole filter put these pins on ground.

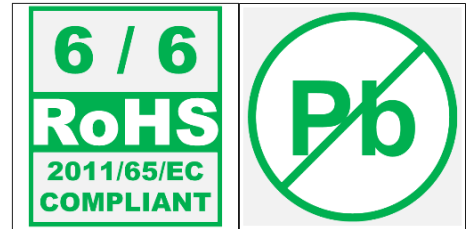
Ceramic seam seal crystal filter package 7.0x5.0mm with 6 pads
CXF-7M-P6 CXF-7M-P6h13
 A 2017-12
 No scale Unit: mm

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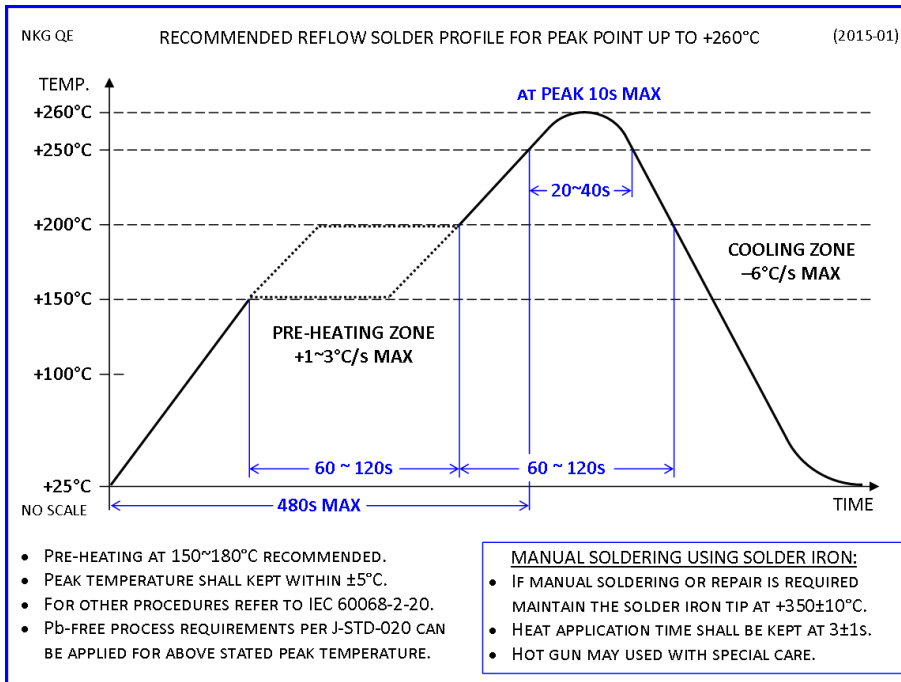
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ENVIRONMENTAL COMPLIANCE INFORMATION

- ROHS 6/6 COMPLIANT (DIRECTIVE 2011/65/EC) AND LEAD-FREE.
- COMPLIANT TO ROHS 2 (DIRECTIVE 2015/863) (ALSO CALLED ROHS 10).
- HALOGEN-FREE PER DEFINITION OF IEC 61249-2-21 2033.
- NONE-USE OF SVHCS PER REACH IS CURRENTLY GIVEN, CONTINUOUSLY MONITORED AND UPDATED AS THE COMMISSION ISSUES NEW RELEASES.
- PRODUCT DOES NOT CONTAIN ANY PHTHALATES (PHS).
- PRODUCT DOES NOT CONTAIN PVC (POLYVINYL CHLORIDE).
- PRODUCT DOES NOT CONTAIN PFOS/PFOA NOR BEING SAME USED TO MANUFACTURE THE COMPONENTS OF THIS PRODUCT.
- MOISTURE SENSITIVITY LEVEL (MSL) 1 PER J-STD-020C.

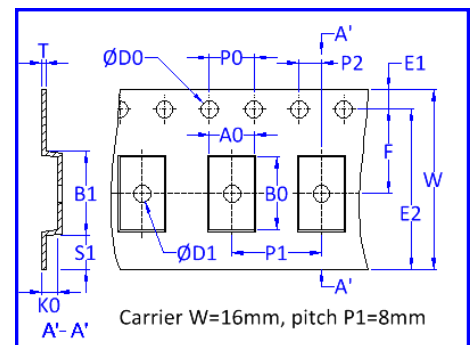


SOLDERING RECOMMENDATIONS



PACKAGING INFORMATION

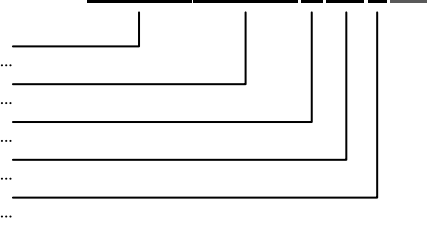
- PACKAGING IN TAPE & REEL IN COMPLIANCE TO EIA-481.
- QTY PER REEL: 1,000PCS
- REEL DIA A=180MM.
- EMBOSSED CARRIER TAPE WIDTH W = 16MM.
- COMPONENT PITCH P1 = 8MM.



PART NUMBER SYNTAX

- PART NUMBER FAMILY (REPRESENTS PRODUCT MODEL AND PACKAGE SIZE / TYPE)
- NOMINAL FREQUENCY (IN MHZ WITH AT LEAST THREE DIGITS AFTER DECIMAL POINT)
- NUMBER OF POLES INDICATOR (A = 2-POLE, B = 4-POLE)
- PASS BANDWIDTH RANGE (I.E. 75= ±3.75KHZ, 15= ±7.5KHZ PASSBAND)
- OPERATING TEMPERATURE RANGE CODE (I.E. C= -10~60°C, E= -20~70°C, M= -40~85°C)
- PART NUMBER EXTENSION (ONLY FOR NONE-STANDARD OR CUSTOMIZED PART)

SFC7M45.000A15E-EXT



FOR MORE INFORMATION PLEASE CONTACT US.

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